SONY

VIDEO SWITCHER

BVS-3200CP

MAINTENANCE MANUAL
Volume 2 1st Edition
Serial No.10001 and Higher

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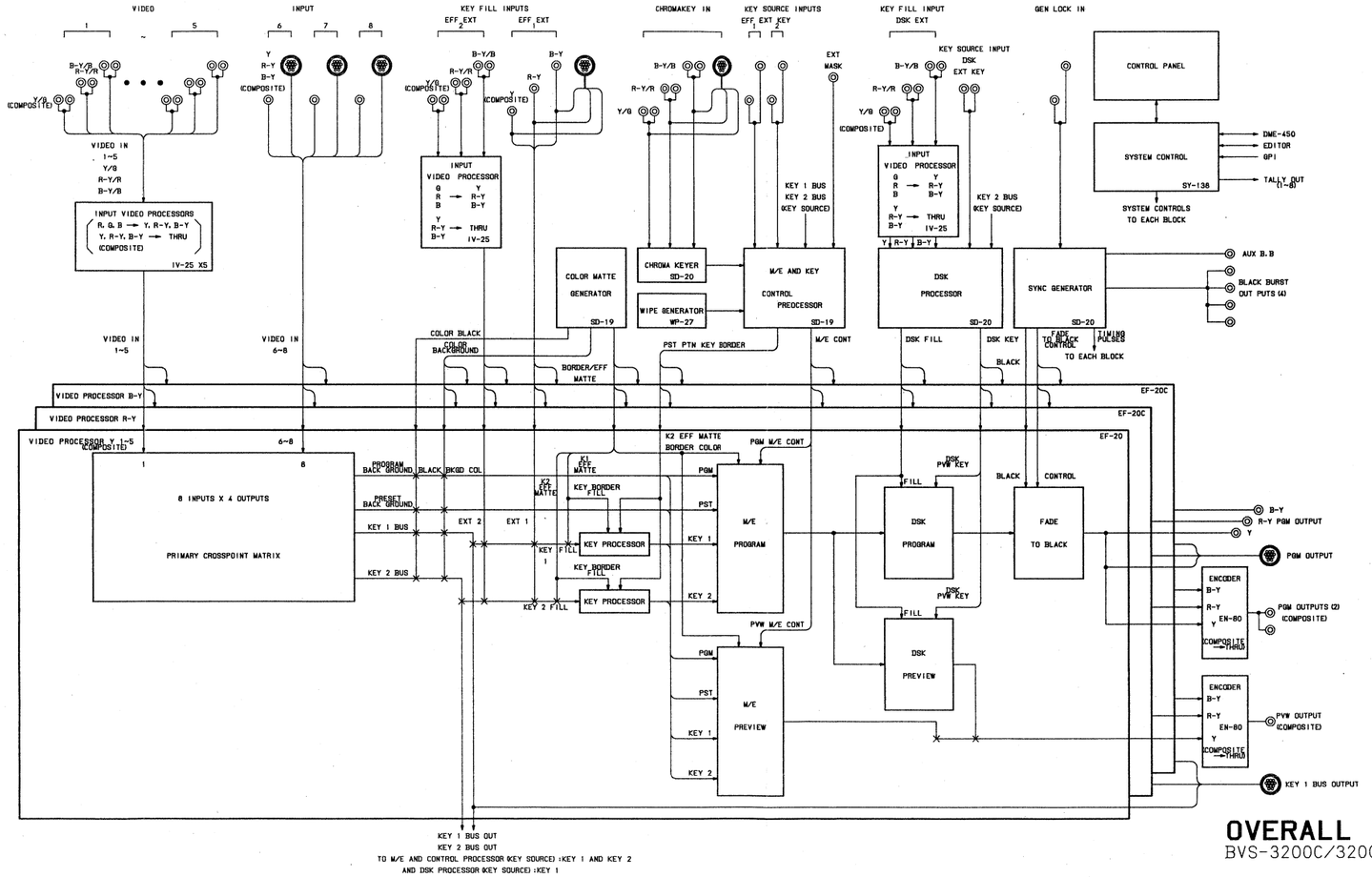
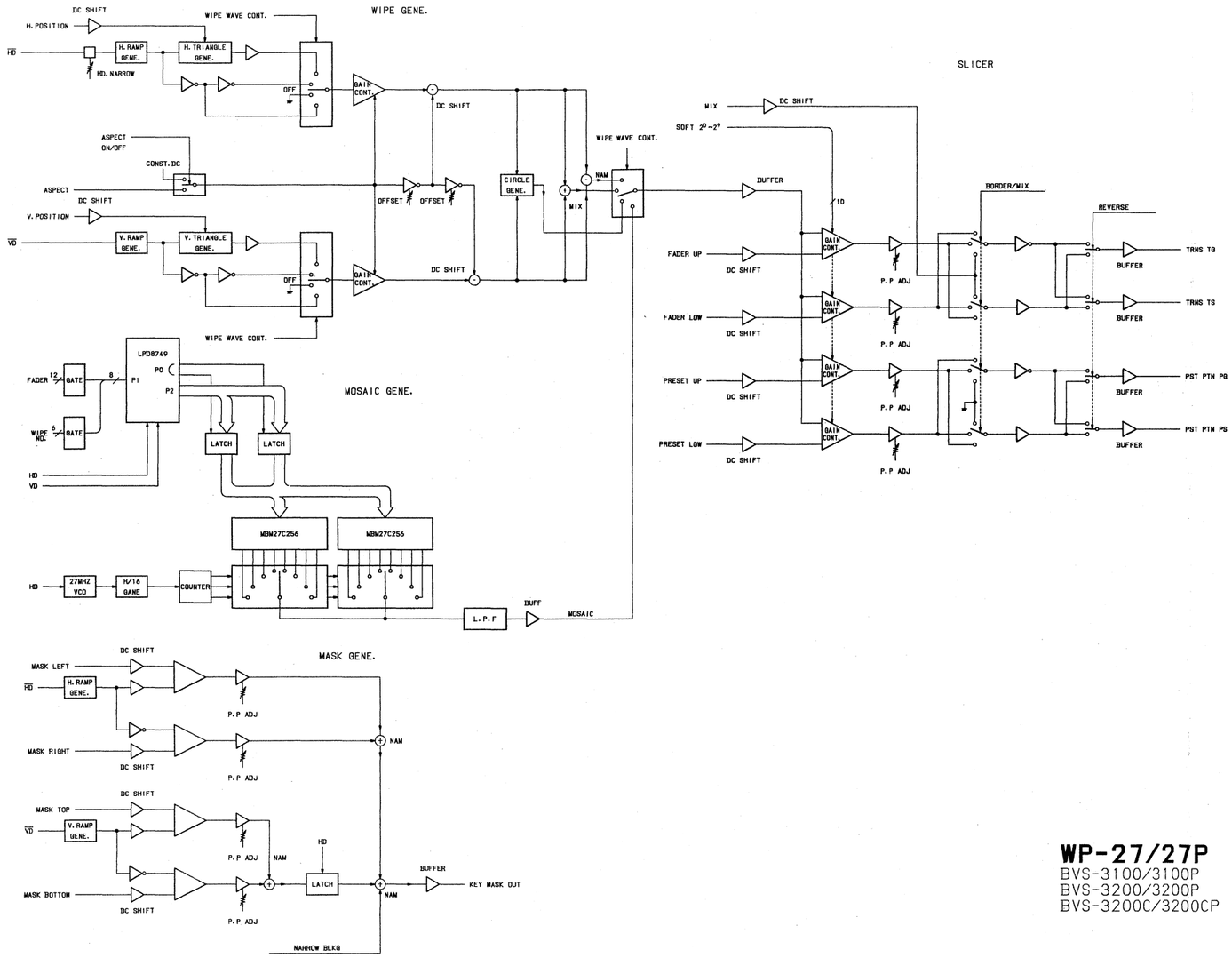
SECTION 5
BLOCK DIAGRAMS

OVERALL



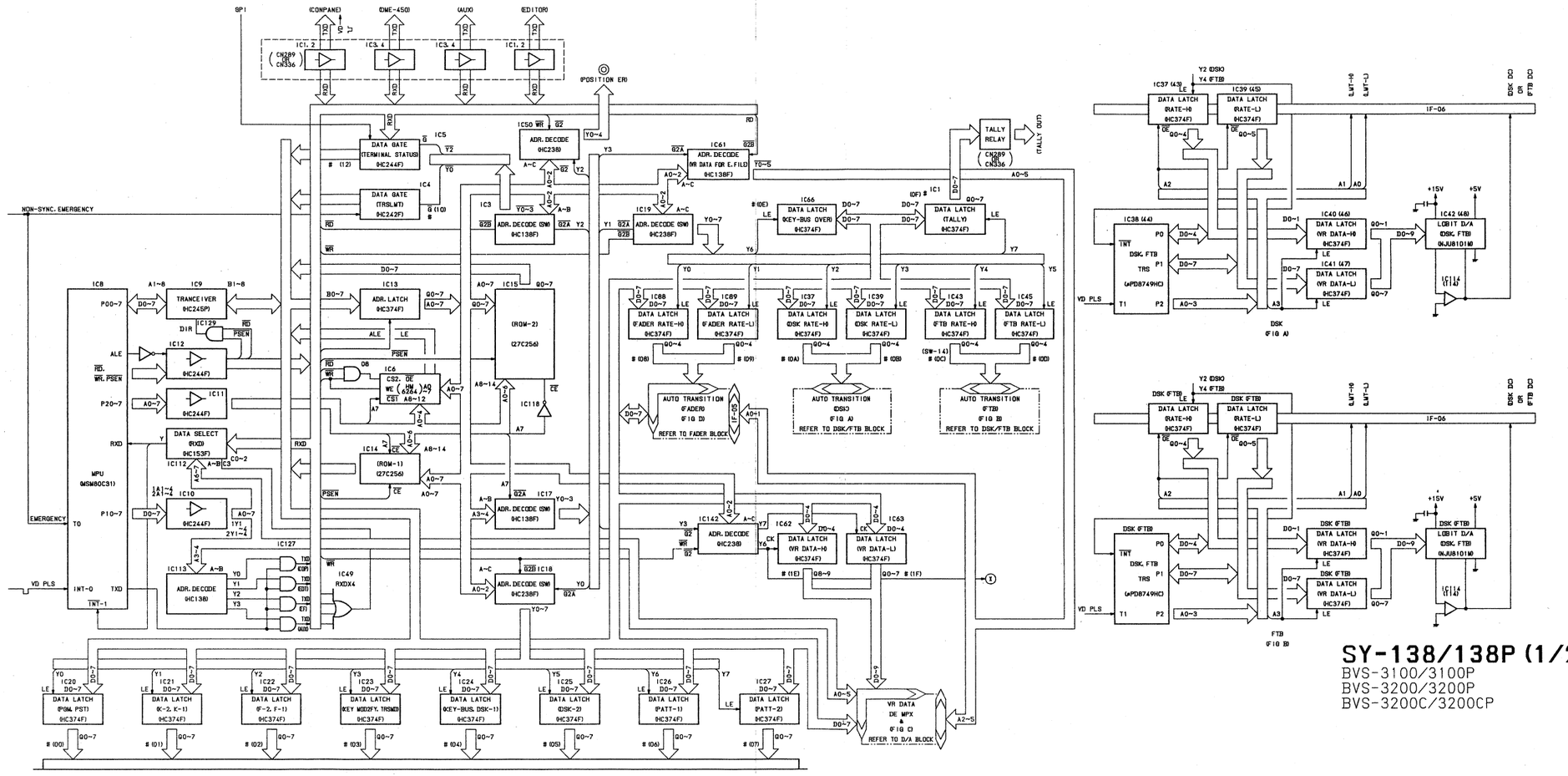
OVERALL
BVS-3200C/3200CP

WIPE SIGNAL GENERATOR



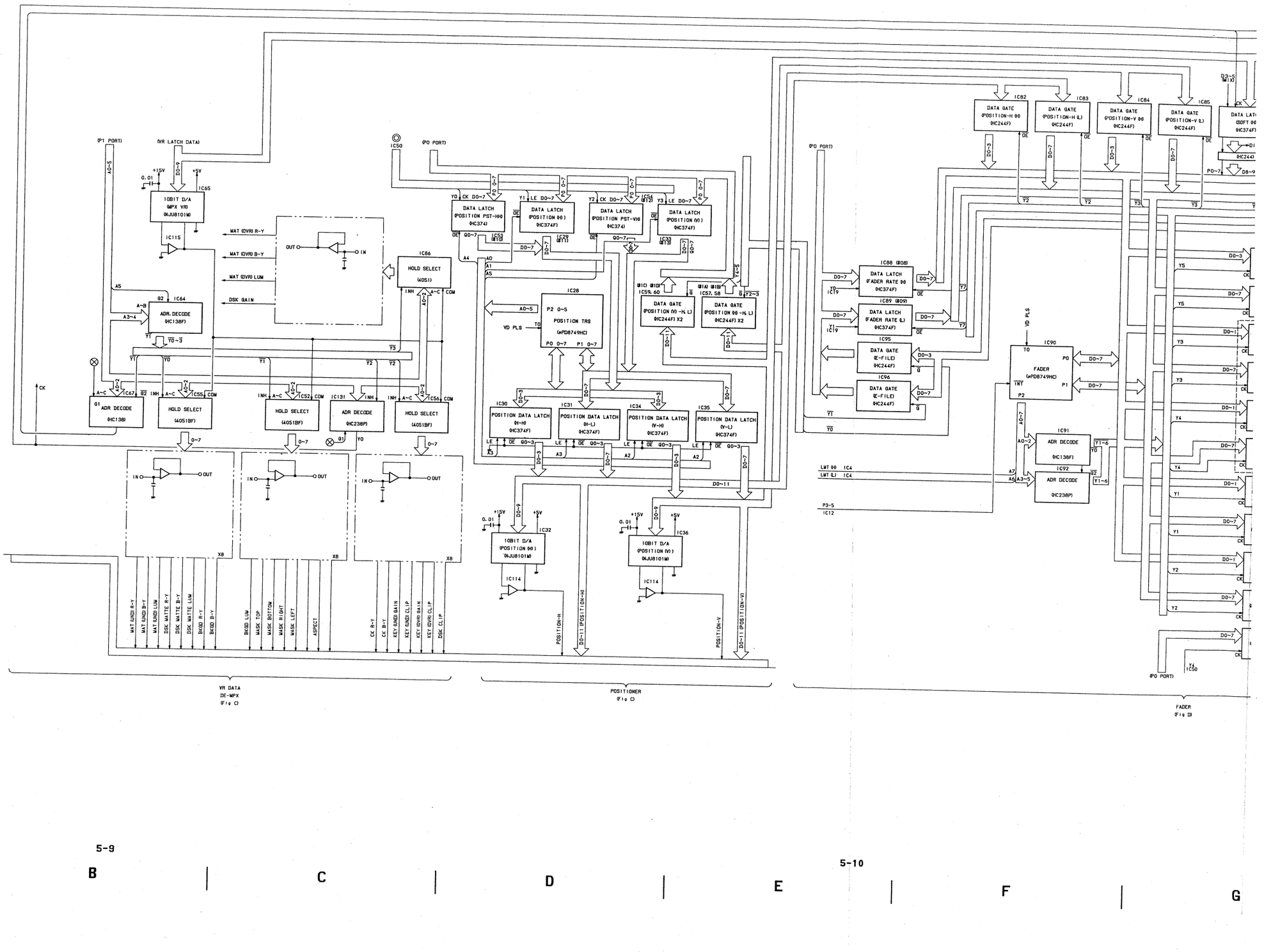
WP-27/27P
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

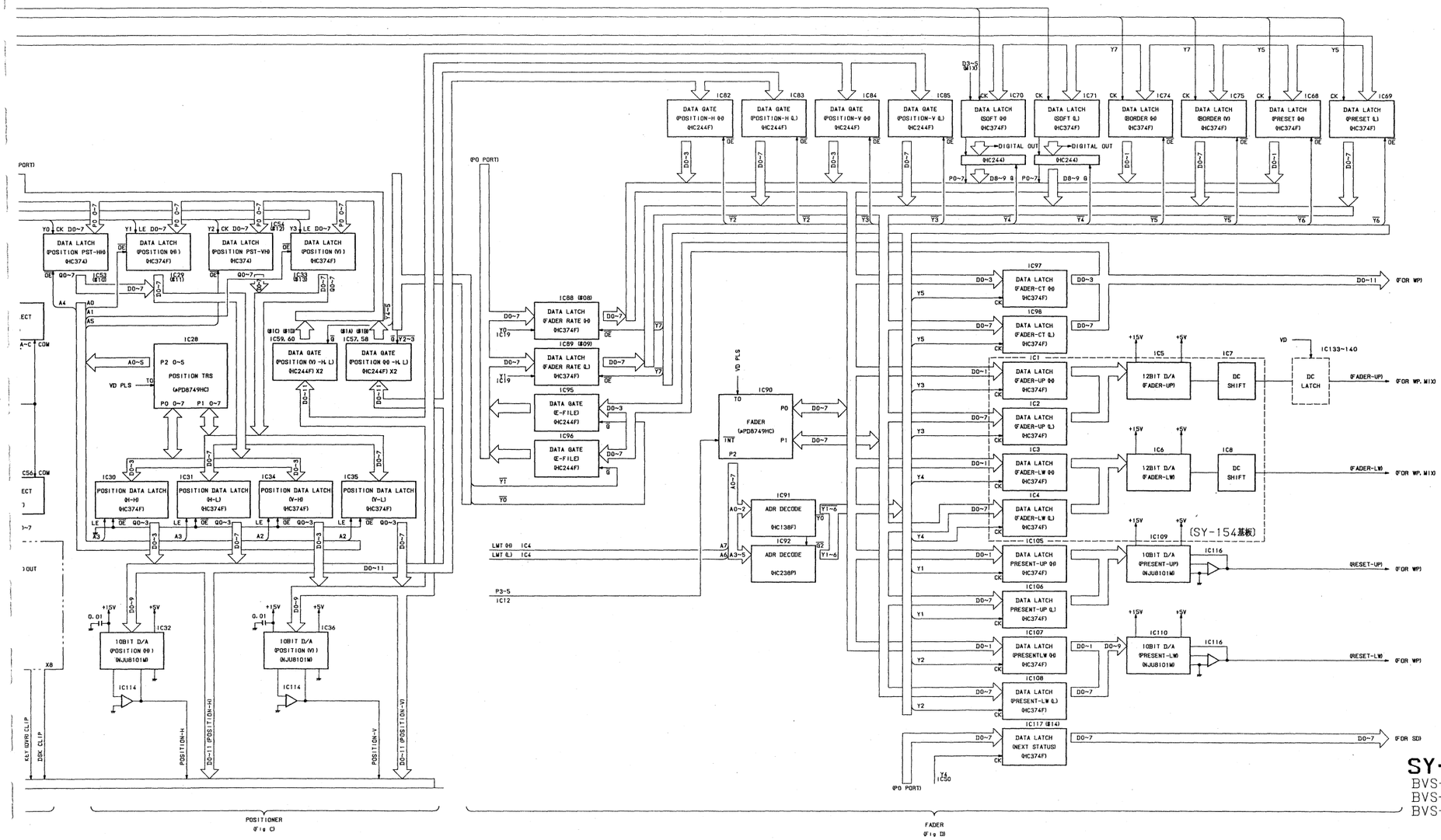
SYSTEM CONTROL (1/2)



SY-138/138P (1/2)
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

SYSTEM CONTROL (2/2)

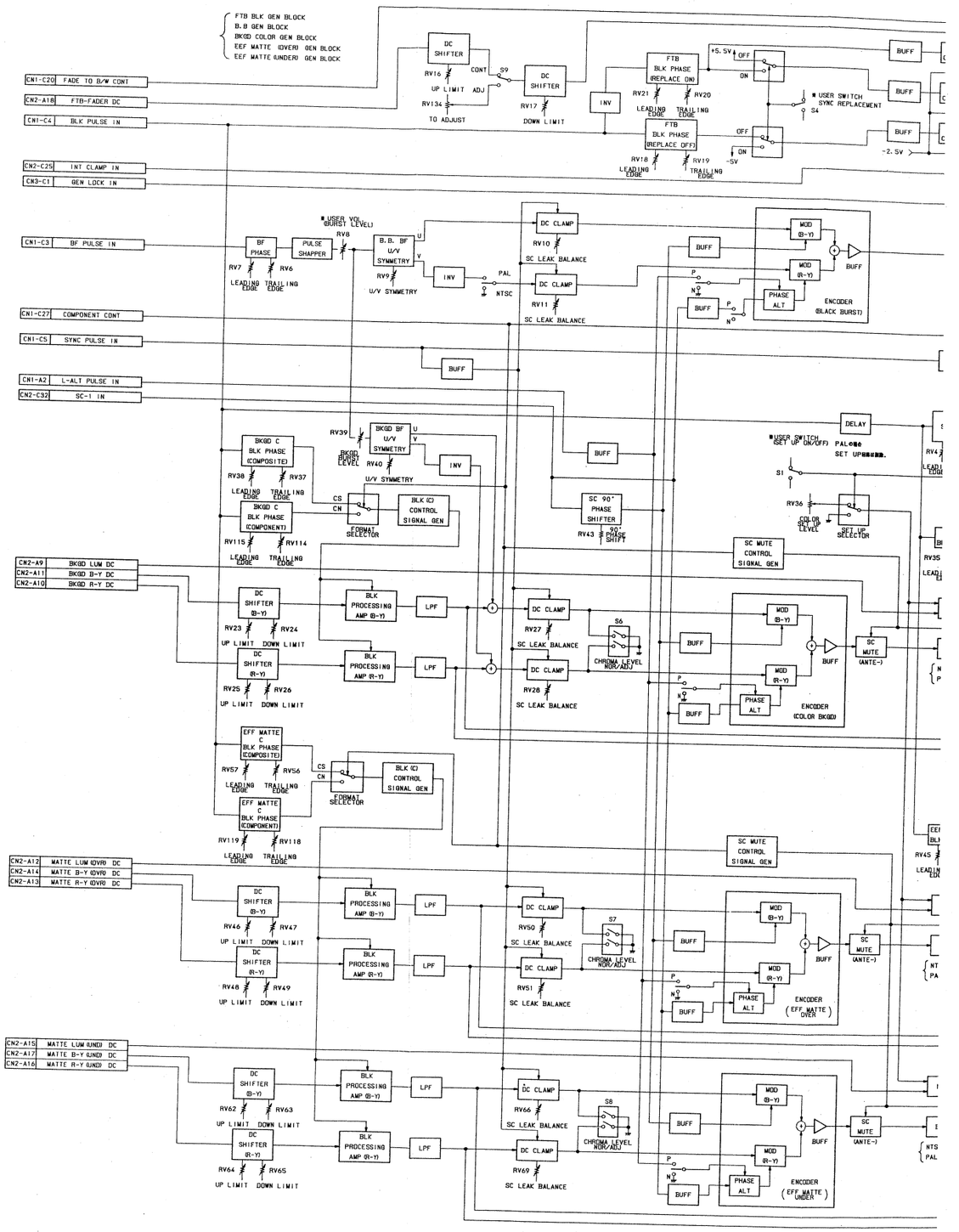


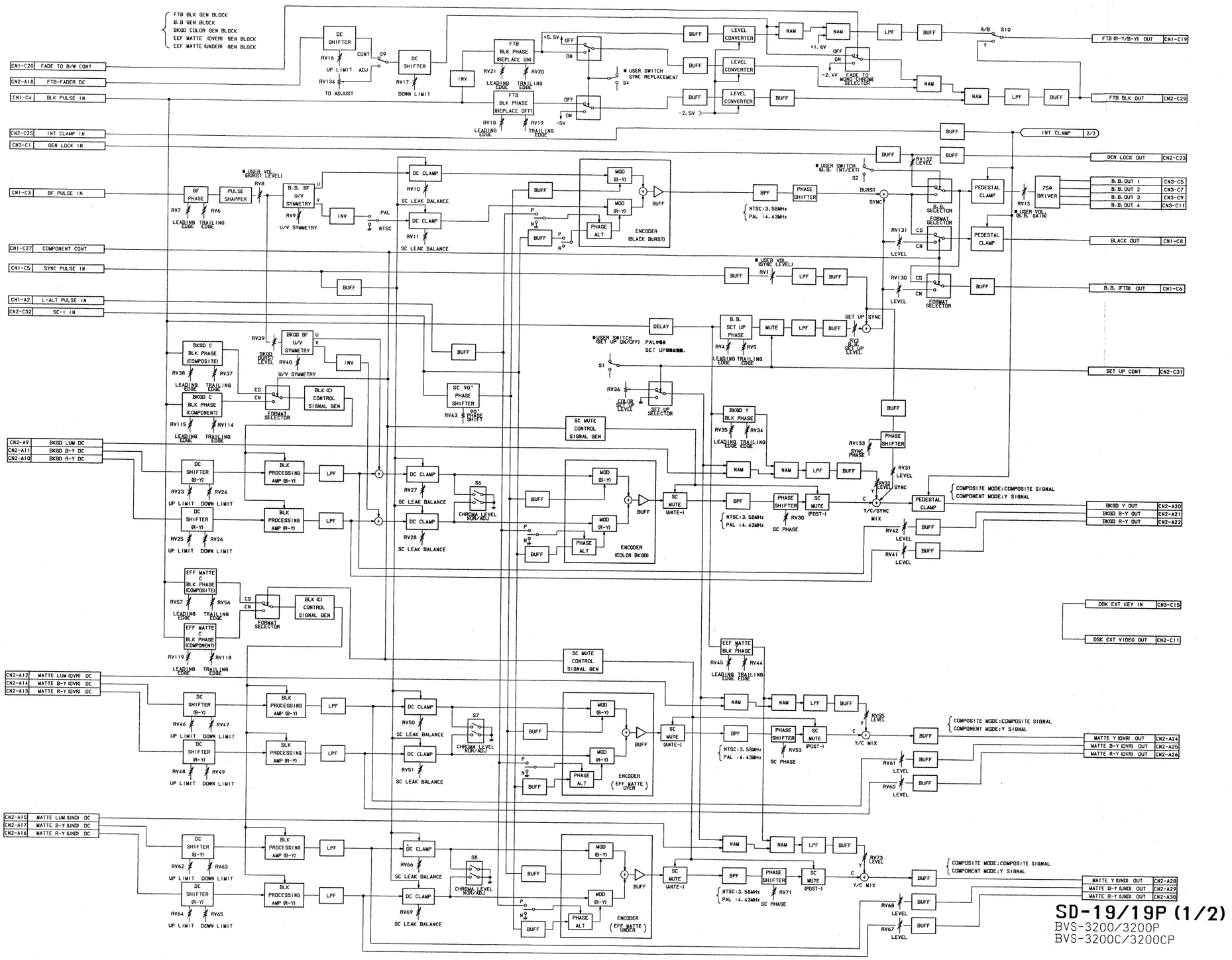


SY-138/138P (2/2)

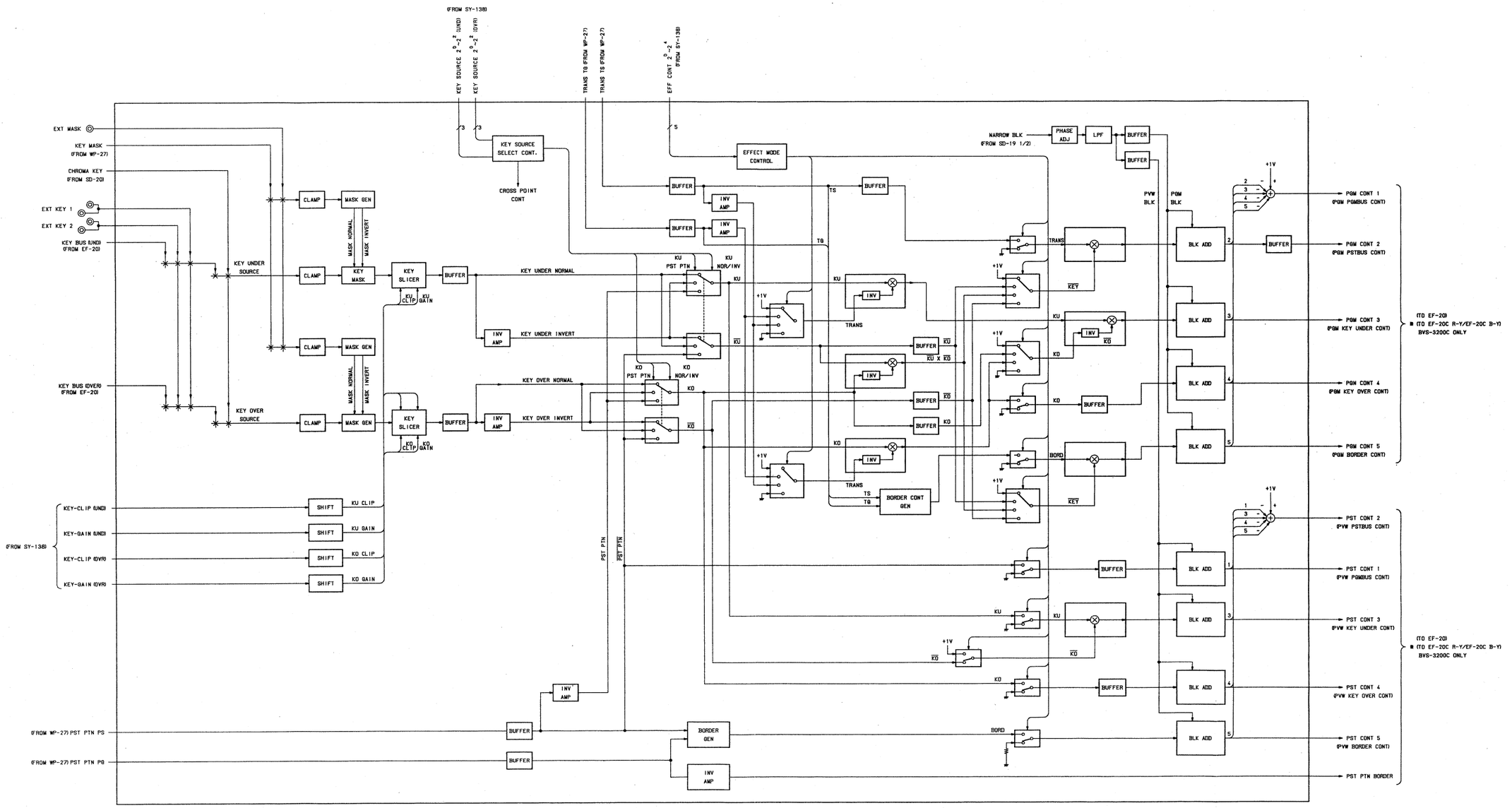
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

SIGNAL GENERATOR FOR SIGNAL PROCESSOR (1/2)



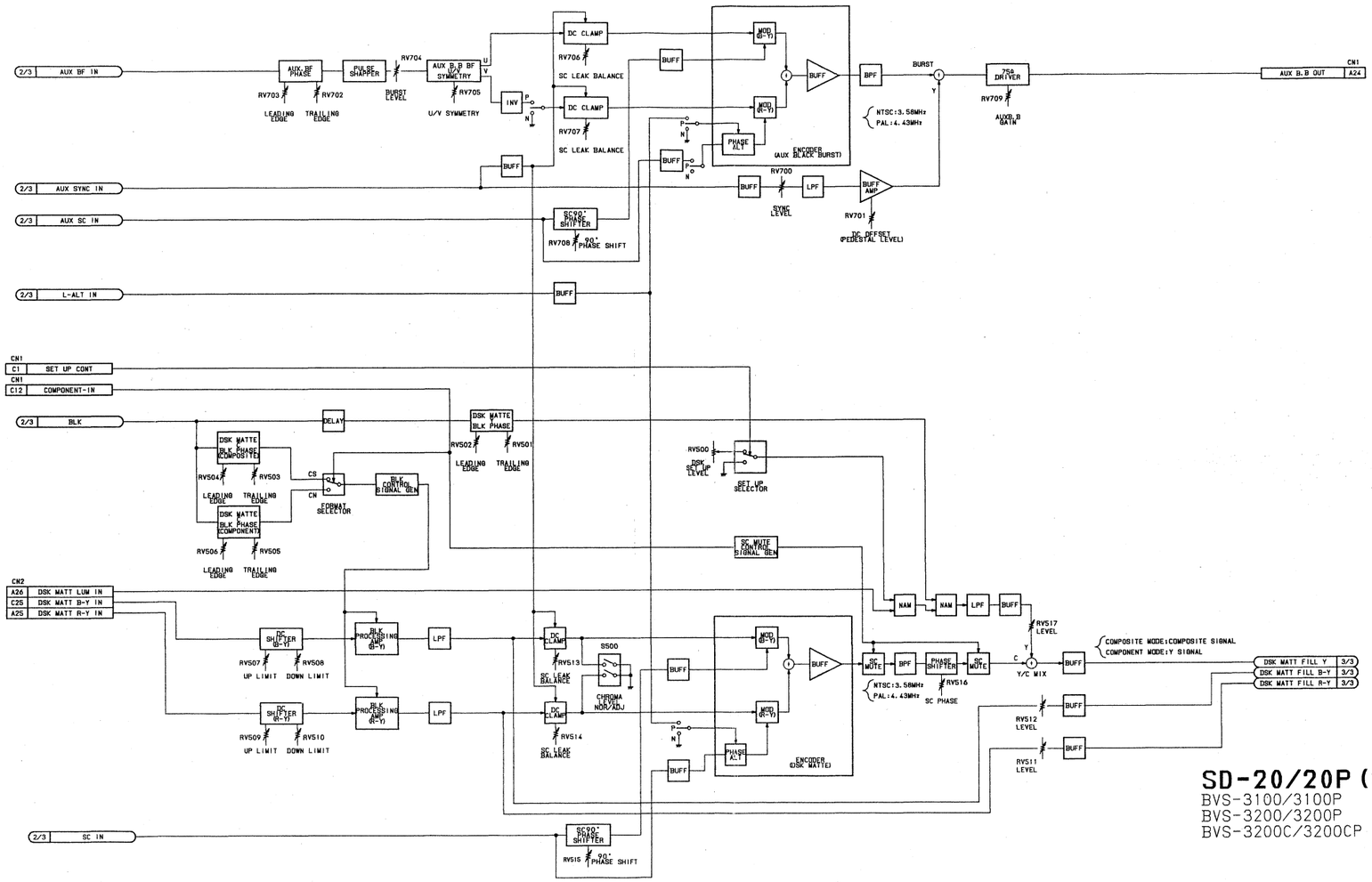

FTB BLK GEN BLOCK
B.B GEN BLOCK
BKGD COLOR GEN BLOCK
EEF MATTE (OVER) GEN BLOCK
EEF MATTE (UNDER) GEN BLOCK
CN1-C20 FADE TO B/W CONT
CN2-A18 FTB-FADER DC
CN1-C4 BLK PULSE IN
CN2-C25 INT CLAMP IN
CN3-C1 GEN LOCK IN
CN1-C3 BF PULSE IN
CN1-C27 COMPONENT CONT
CN1-C5 SYNC PULSE IN
CN1-A2 L-ALT PULSE IN
CN2-C32 SC-I IN
CN2-A9 BKGD LUM DC
CN2-A11 BKGD B-Y DC
CN2-A10 BKGD R-Y DC
CN2-A12 MATTE LUM (OVR) DC
CN2-A14 MATTE B-Y (OVR) DC
CN2-A13 MATTE R-Y (OVR) DC
CN2-A15 MATTE LUM (UNDR) DC
CN2-A17 MATTE B-Y (UNDR) DC
CN2-A16 MATTE R-Y (UNDR) DC
DC SHIFTER
BLK PROCESSING AMP
LPF
BUFF
INV
DC CLAMP
SC LEAK BALANCE
FTB BLK PHASE (REPLACE ON)
FTB BLK PHASE (REPLACE OFF)
LEVEL CONVERTER
NAM
LPF
FADE TO MONO (CHROME SELECTOR)
FTB R-Y/B-Y OUT CN1-C19
FTB BLK OUT CN2-C29
INT CLAMP 2/2
GEN LOCK OUT CN2-C23
B.B. BF U/V SYMMETRY
BF PHASE
PULSE SHAPPER
MOD (B-Y)
MOD (R-Y)
PHASE ALT
ENCODER (BLACK BURST)
BPF
PHASE SHIFTER
BURST SYNC
B.B SELECTOR
PEDESTAL CLAMP
75Ω DRIVER
B.B. OUT 1 CN3-C5
B.B. OUT 2 CN3-C7
B.B. OUT 3 CN3-C9
B.B. OUT 4 CN3-C11
BLACK OUT CN1-C8
B.B. FTB OUT CN1-C6
B.B SET UP PHASE
MUTE
SET UP SYNC
SET UP CONT CN2-C31
BKGD C BLK PHASE (COMPOSITE)
BKGD C BLK PHASE (COMPONENT)
BLK (C) CONTROL SIGNAL GEN
SC 90° PHASE SHIFTER
SC MUTE CONTROL SIGNAL GEN
BKGD Y BLK PHASE
SC MUTE (ANTE-)
SC MUTE (POST-)
SC PHASE
Y/C/SYNC MIX
COMPOSITE MODE:COMPOSITE SIGNAL
COMPONENT MODE:Y SIGNAL
BKGD Y OUT CN2-A20
BKGD B-Y OUT CN2-A21
BKGD R-Y OUT CN2-A22
EFF MATTE C BLK PHASE (COMPOSITE)
EFF MATTE C BLK PHASE (COMPONENT)
EFF MATTE BLK PHASE
DSK EXT KEY IN CN3-C15
DSK EXT VIDEO OUT CN2-C11
MATTE Y (OVR) OUT CN2-A24
MATTE B-Y (OVR) OUT CN2-A25
MATTE R-Y (OVR) OUT CN2-A26
MATTE Y (UNDR) OUT CN2-A28
MATTE B-Y (UNDR) OUT CN2-A29
MATTE R-Y (UNDR) OUT CN2-A30
SD-19/19P (1/2)
BVS-3200/3200P
BVS-3200C/3200CP

SIGNAL GENERATOR FOR SIGNAL PROCESSOR (2/2)



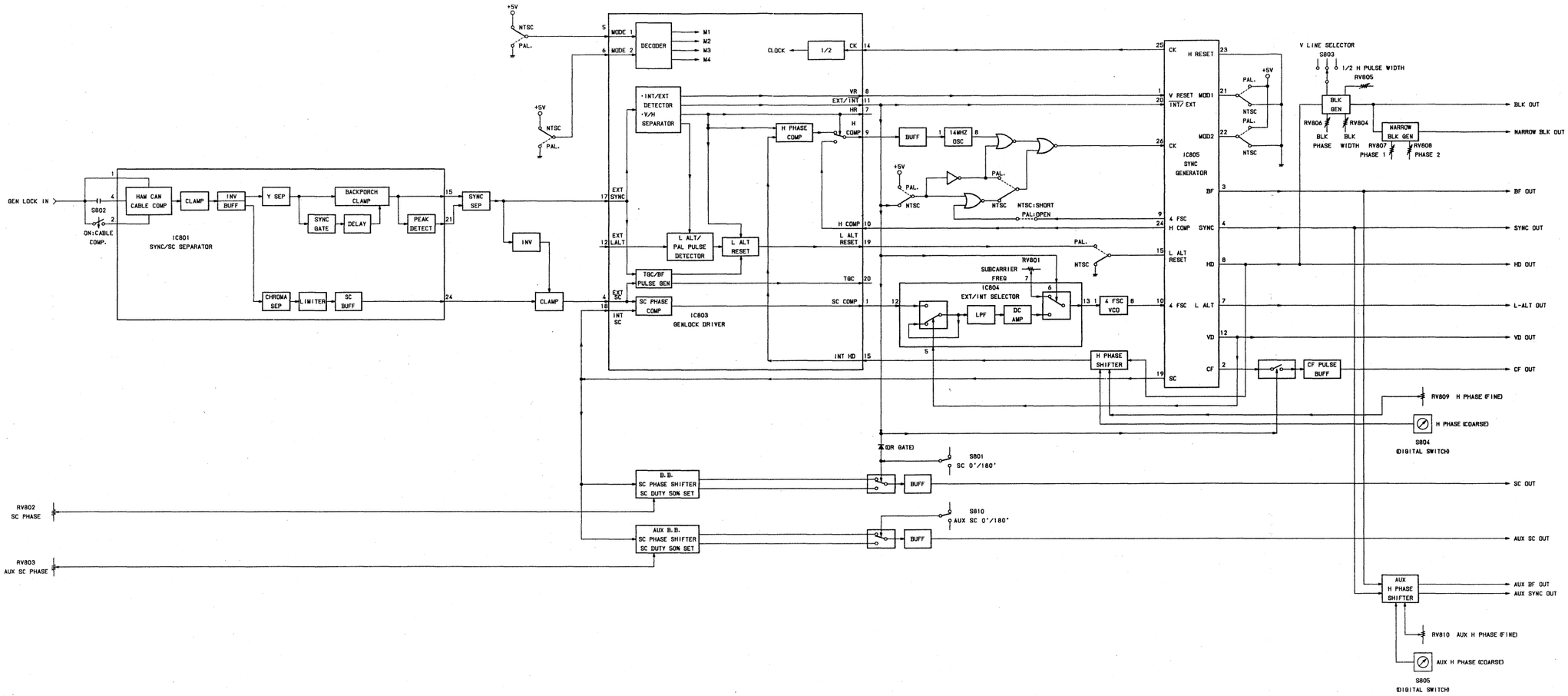
SD-19/19P (2/2)
BVS-3200/3200P
BVS-3200C/3200CP

SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR (1/3)



SD-20/20P (1/3)
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

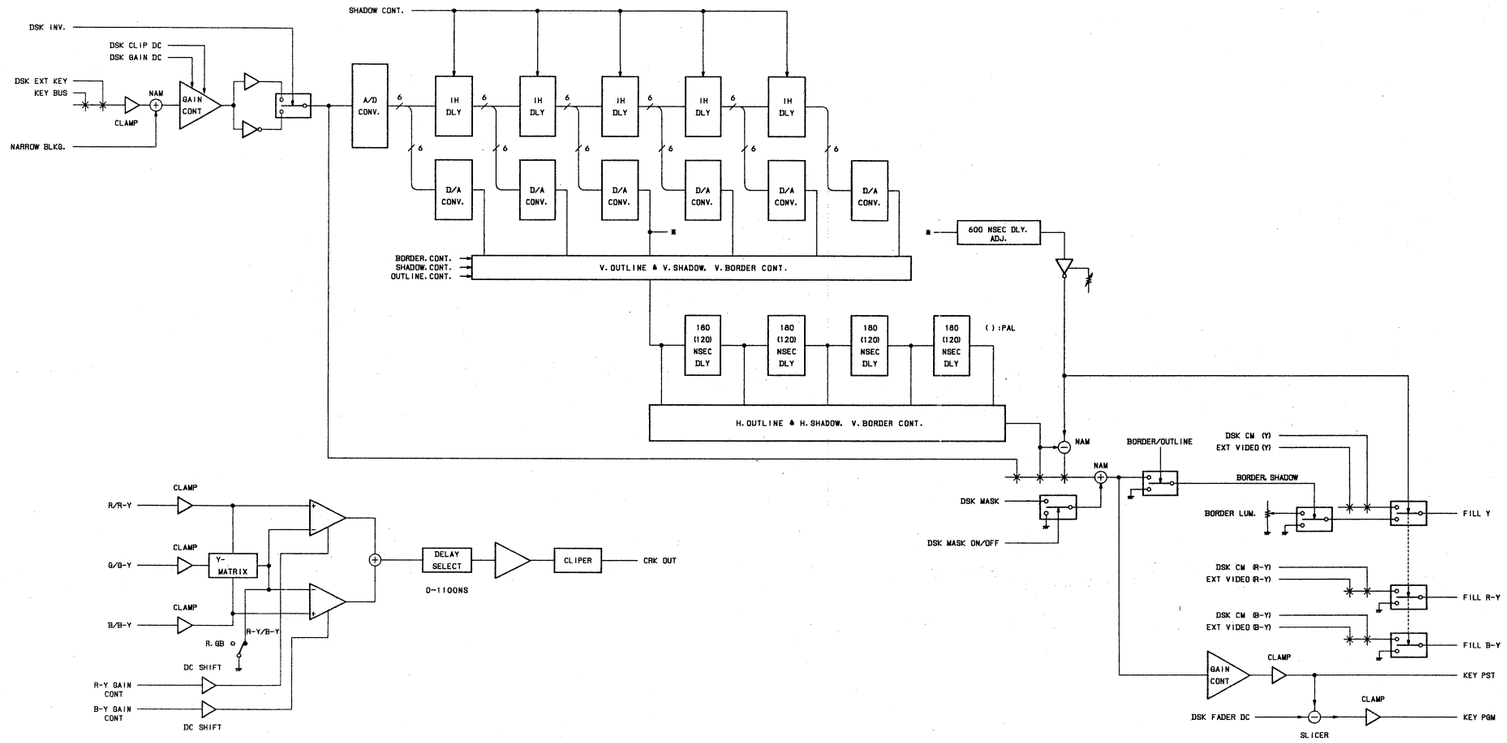
SYNC GENERATOR
CHROMA KEY
DOWN STREAM KEY
SIGNAL GENERATOR (2/3)



SD-20/20P (2/3)

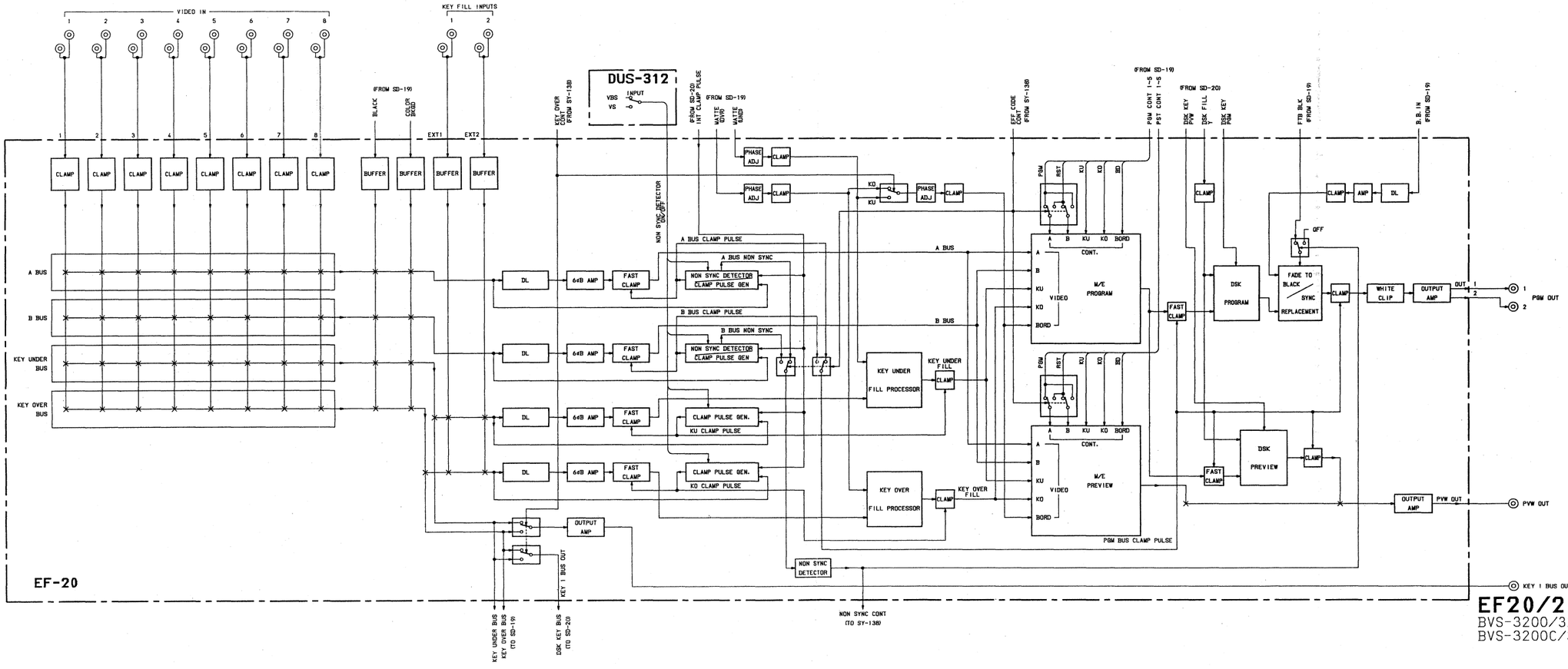
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

SYNC GENERATOR,CHROMA KEY, DOWN STREAM KEY SIGNAL GENERATOR (3/3)



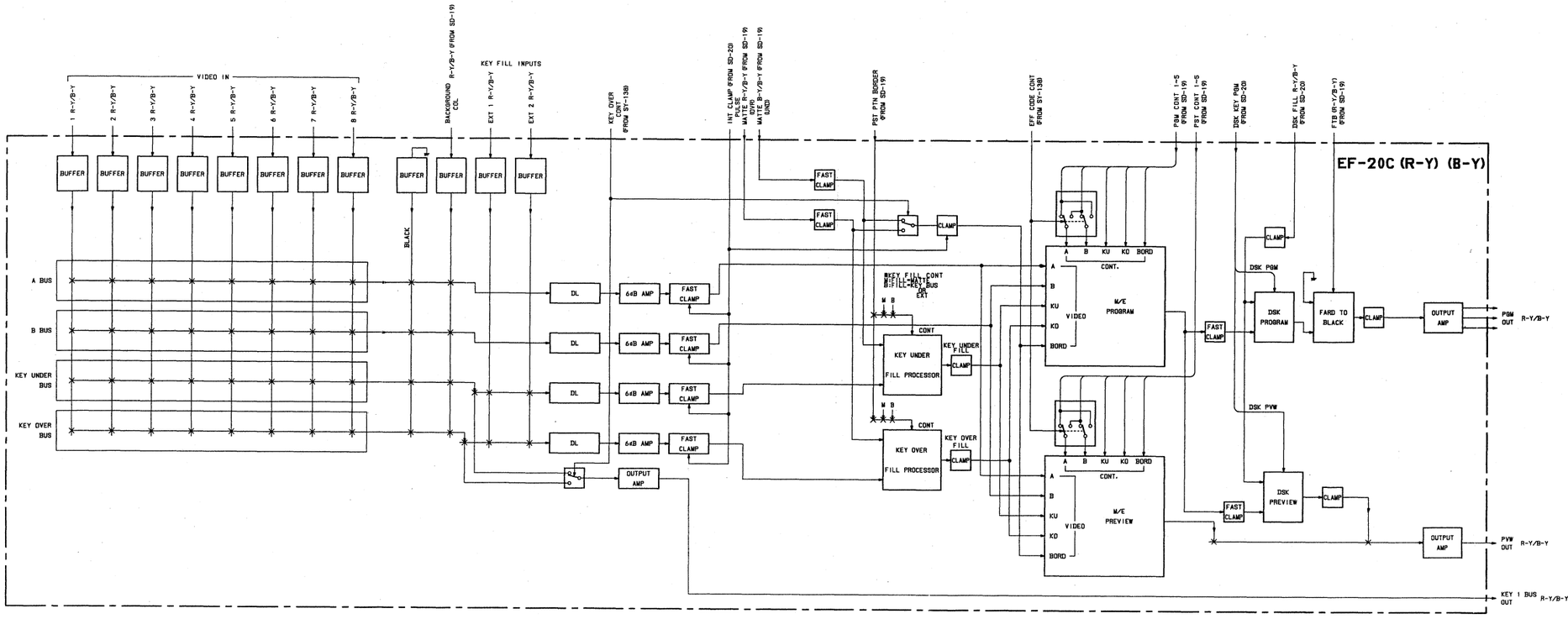
SD-20/20P (3/3)
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

Y (COMPOSITE) SIGNAL PROCESSOR



EF20/20P
BVS-3200/3200P
BVS-3200C/3200CP

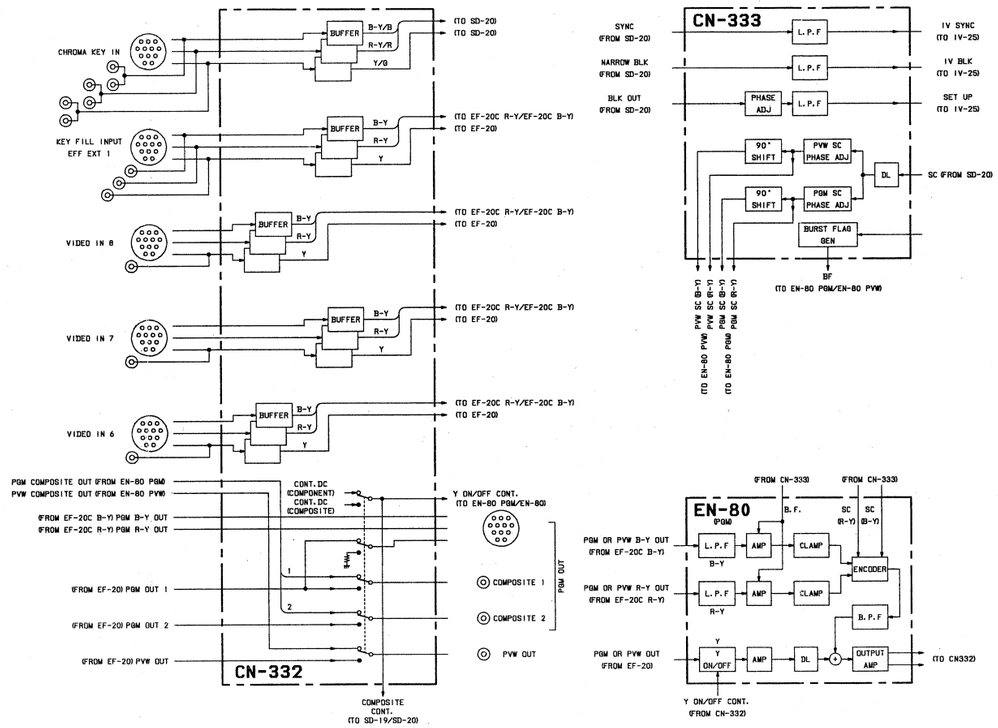
B-Y (R-Y) SIGNAL PROCESSOR

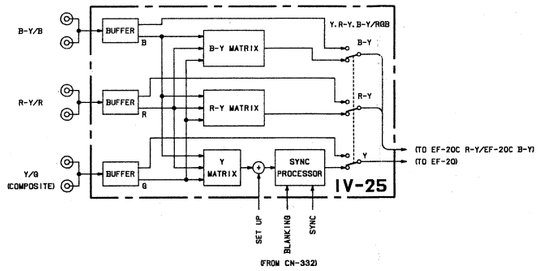


EF-20C/20CP
BVS-3200C/3200CP

CN-332 CN-336 EN-80/80P IV-25/25P PROCESS

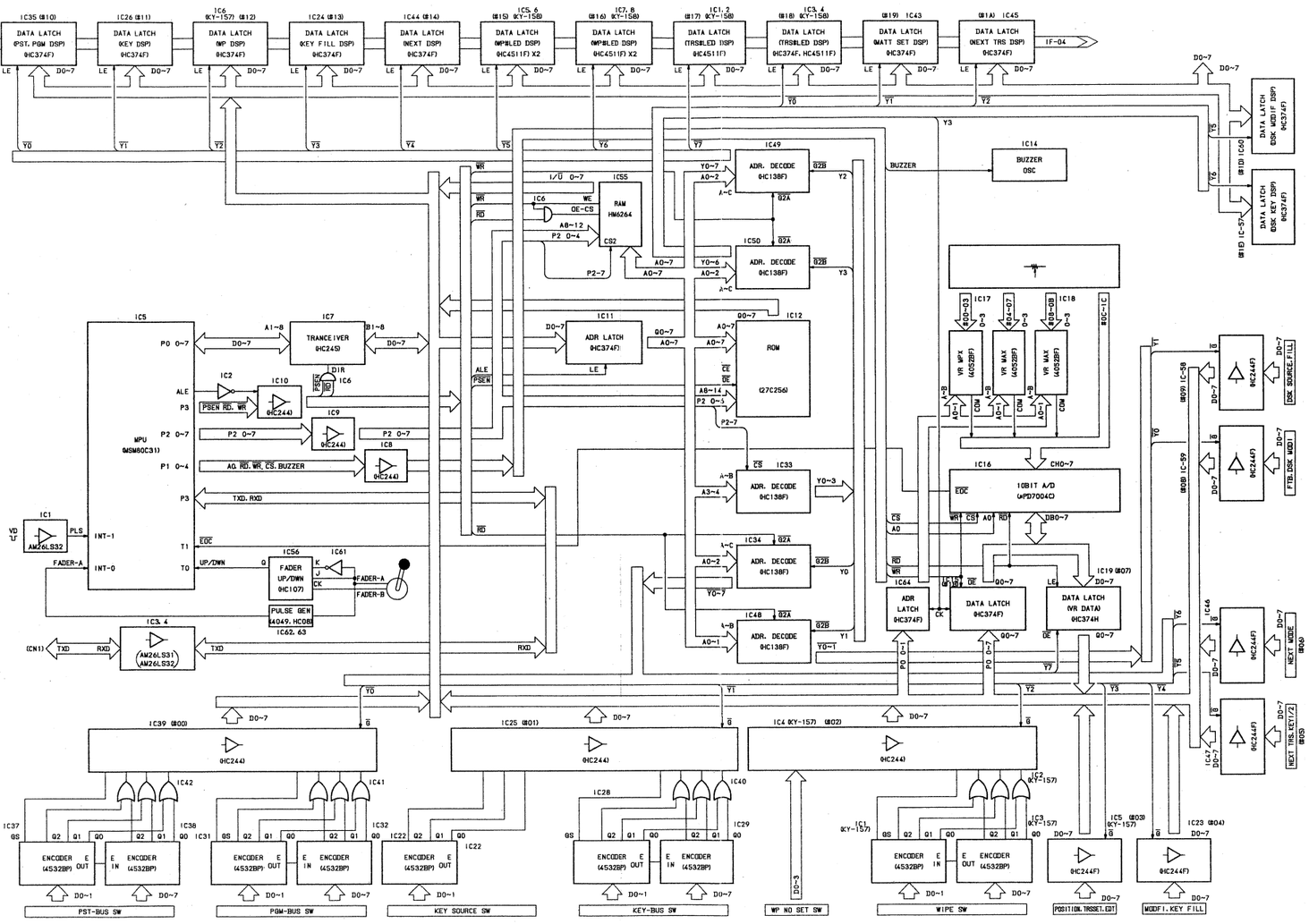
CONNECTOR ENCODER MODE SET FOR INPUT VIDEO SIGNAL





CN-332 CN-336
EN-80/80P IV-25/25P
BVS-3200/3200P

CONSOLE



CONSOLE

BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

SECTION 6
SEMICONDUCTOR ELECTRODES

ここに記載されているIC，トランジスタ，ダイオードは，それぞれの機能を等価的に表わしたものです。したがって互換性を表わすものではありません。(互換性のない型名が併記されている事もあります。) 部品の交換をする時は，SPARE PARTSの章を参照して下さい。

ICs, transistors and diodes whoses functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

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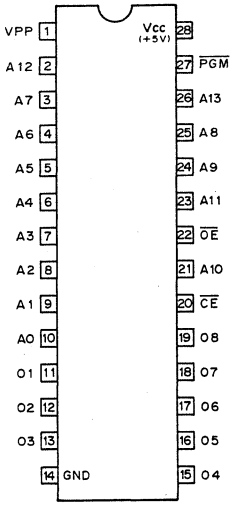
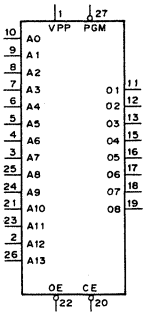
等価回路はICメーカーのData Bookに従いました。

The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

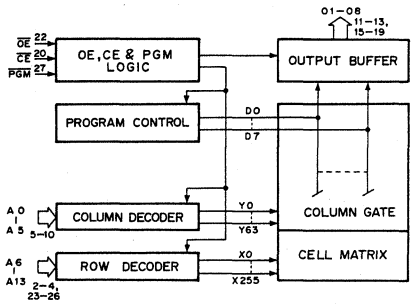
IC

27C128-25 (INTEL) (ACCESS TIME = 250nS)
C-MOS 131,072-BIT EPROM
– TOP VIEW –





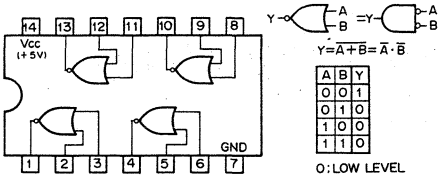
A0-13 :ADDRESS INPUT
$\overline{CE}$:CHIP ENABLE
O1-8 :DATA OUTPUT
$\overline{OE}$:OUTPUT ENABLE
$\overline{PGM}$:PROGRAM ENABLE
VPP :PROGRAM POWER SUPPLY



MODE \ TERMINAL	DATA OUTPUT	$\overline{CE}$	$\overline{OE}$	$\overline{PGM}$	VPP
READ	DATA OUT	0	0	1	+5V
OUTPUT DISABLE	HIGH IMPEDANCE	0	1	1	+5V
OUTPUT DISABLE	HIGH IMPEDANCE	0	0	0	+5V
STANDBY	HIGH IMPEDANCE	1	X	X	+5V
PROGRAM	DATA IN	0	1	0	+21V
PROGRAM VERIFY	DATA OUT	0	0	1	+21V
PROGRAM INHIBIT	HIGH IMPEDANCE	1	X	X	+21V

0:LOW LEVEL
1:HIGH LEVEL
X:DON'T CARE

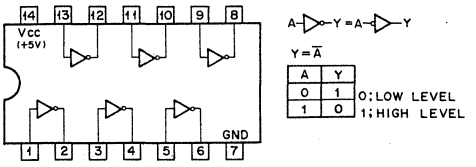
74F02PC (FSC)
TTL 2-INPUT POSITIVE-NOR GATE
– TOP VIEW –



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

0:LOW LEVEL
1:HIGH LEVEL

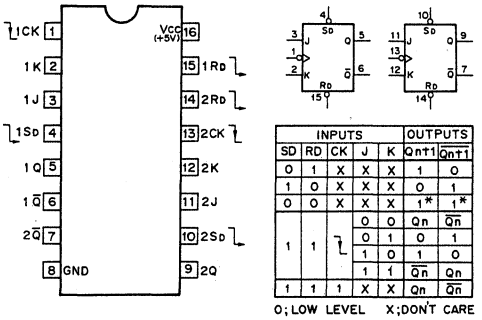
74F04SJ (FSC) FLAT PACKAGE
TTL INVERTER
– TOP VIEW –



A	Y
0	1
1	0

0:LOW LEVEL
1:HIGH LEVEL

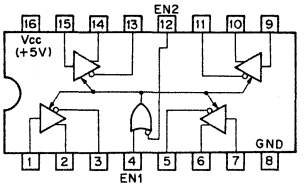
74F112PC (RCA)
TTL J-K FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —



INPUTS					OUTPUTS	
SD	RD	CK	J	K	Qn+1	$\overline{Qn+1}$
0	1	X	X	X	1	0
1	0	X	X	X	0	1
0	0	X	X	X	1*	1*
1	1	↓	0	0	Qn	$\overline{Qn}$
			0	1	0	1
			1	0	1	0
			1	1	$\overline{Qn}$	Qn
1	1	1	X	X	Qn	$\overline{Qn}$

0;LOW LEVEL X;DON'T CARE
1;HIGH LEVEL *;NONSTABLE

AM26LS31CNS (TI)
HIGH SPEED DIFFERENTIAL LINE DRIVER
– TOP VIEW –

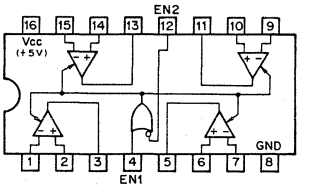


FUNCTION TABLE

EN2	EN1	OUTPUT
0	0	ENABLE
0	1	ENABLE
1	0	HI-Z
1	1	ENABLE

0; LOW LEVEL
1; HIGH LEVEL
HI-Z; HIGH IMPEDANCE

AM26LS32ACNS (TI)
HIGH SPEED DIFFERENTIAL LINE RECEIVER
— TOP VIEW —



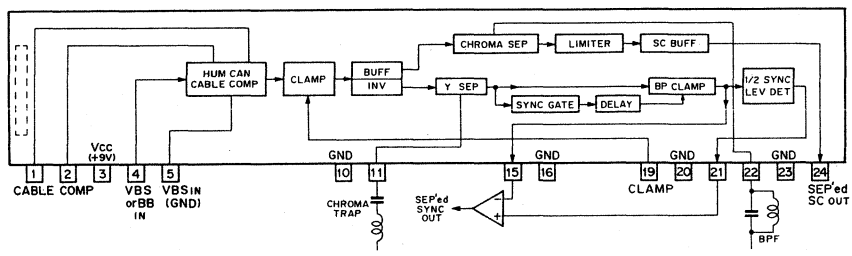
FUNCTION TABLE

EN2	EN1	OUTPUT
0	0	ENABLE
0	1	ENABLE
1	0	HI-Z
1	1	ENABLE

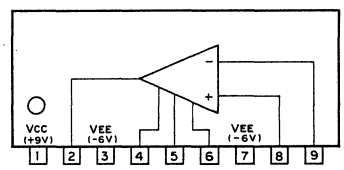
0; LOW LEVEL
1; HIGH LEVEL
HI-Z; HIGH IMPEDANCE

	SENSE	INPUT VOLT
LS32	±200mV	±7V
LS33	±500mV	±15V

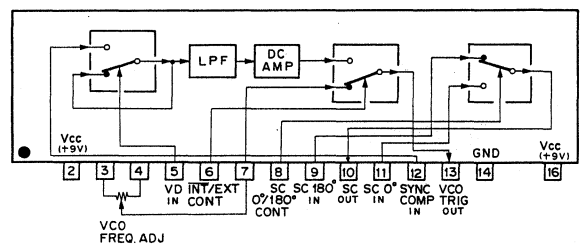
BX1040 (SONY)
SYNC SEPARATOR
— REAR VIEW —



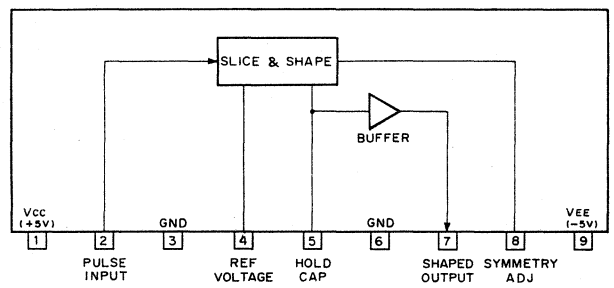
BX1356 (SONY)
VIDEO OUTPUT AMPLIFIER
— PRINTED SIDE —



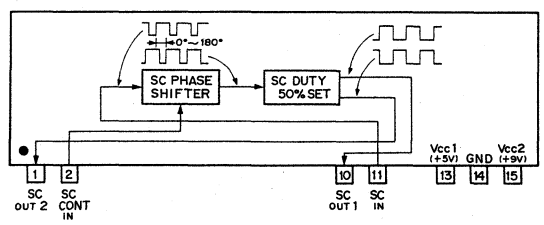
BX1291 (SONY)
APC AMPLIFIER AND SC 0/180° SELECTOR
— REAR VIEW —



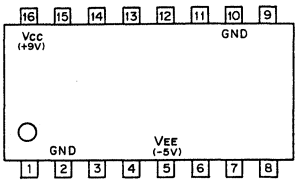
BX1333L (SONY)
PULSE SHAPER
— PRINTED SIDE VIEW —

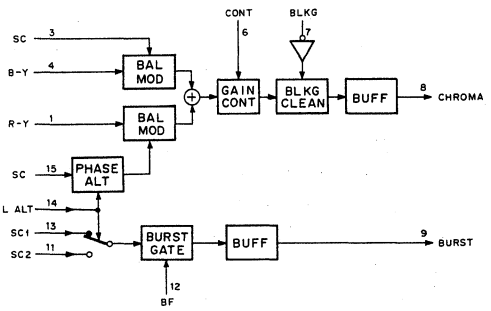


BX1339A (SONY)
SC PHASE SHIFTER
— REAR VIEW —

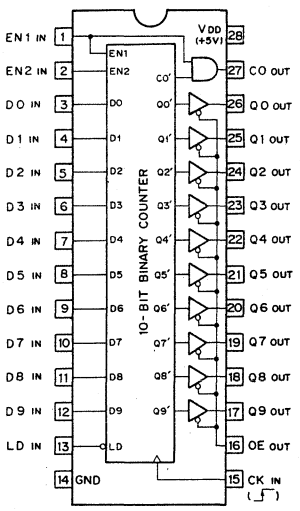


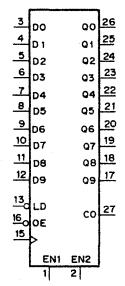
CX22017 (SONY)
VIDEO SIGNAL PROCESSOR
— TOP VIEW —





CX23043 (SONY)
N-MOS SYNCHRONOUS 10-BIT BINARY COUNTER
— TOP VIEW —





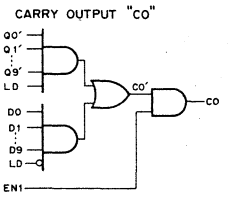
EN1	EN2	LD	FUNCTION
1	1	1	COUNT
0	X	1	NO COUNT
X	0	1	NO COUNT
X	X	0	LOAD

OE	Q0 to Q9 OUTPUT
0	Q0' to Q9'
1	HI-IMPEDANCE

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

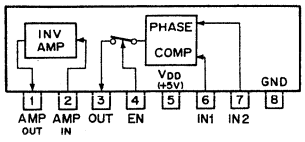
Q0 to Q9; OUTPUTS
Q0' to Q9'; COUNTER OUTPUTS
D0 to D9; INPUTS DATA
CO; CARRY OUTPUT
OE; OUTPUT ENABLE
LD; INPUT DATA LOAD
EN1; CLOCK & CARRY OUT ENABLE
EN2; CLOCK ENABLE
CK; CLOCK INPUT

CARRY OUTPUT "CO"



CX23065A (SONY)

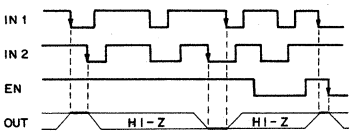
N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER
– PRINTED SIDE VIEW –



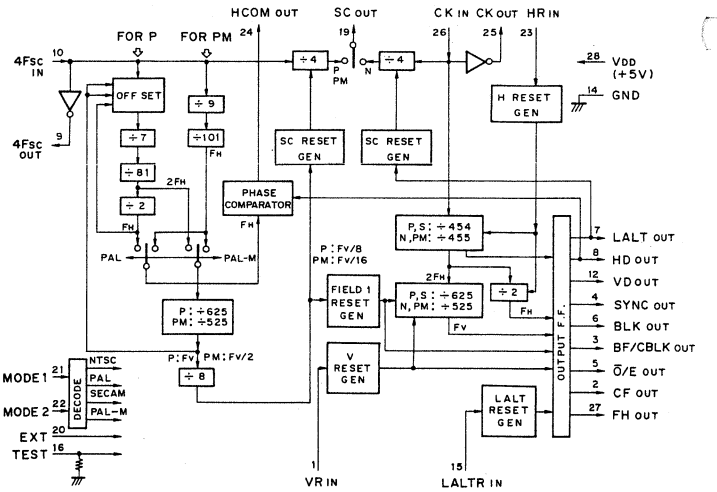
EN	OUT
1	ACTIVE
0	HIGH IMPEDANCE

1; HIGH LEVEL
0; LOW LEVEL

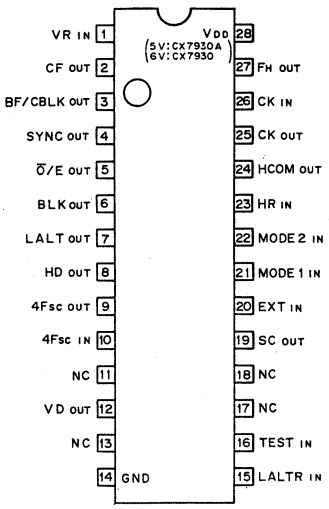
TIMING CHART

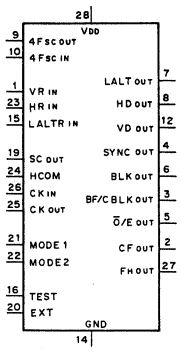


HI-Z ; HI-IMPEDANCE



CX7930A (SONY) FLAT PACKAGE
C-MOS SYNC GENERATOR (NTSC, PAL-M, PAL, SECAM)
— TOP VIEW —





Ō/E : ODD/EVEN FIELD
CF : COLOR FRAME PULSE
HCOM : H COMPARATOR

SYSTEM	4Fsc	CLOCK
NTSC	910 FH	910FH
PAL	1135FH+2Fv	908FH
PALM	909FH	910FH
SECAM	———	908FH

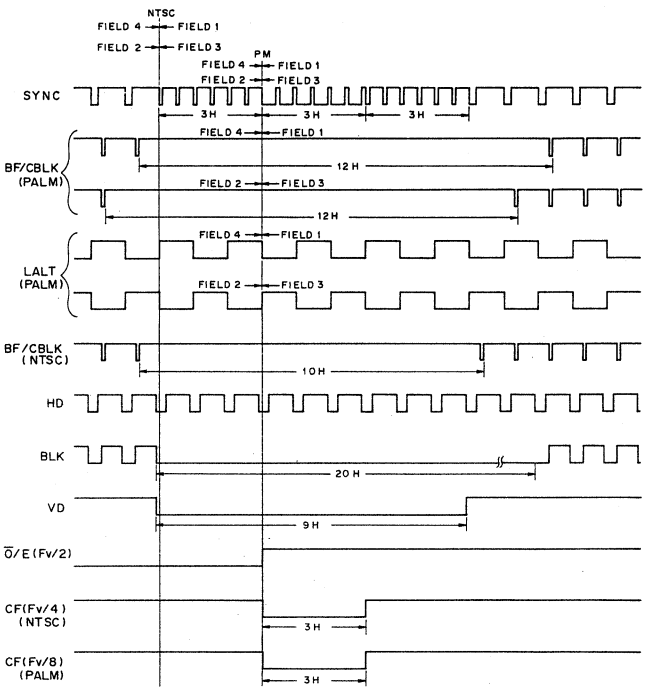
INPUTS		SYSTEM
MODE 1	MODE 2	
0	0	NTSC
0	1	SECAM
1	0	PALM
1	1	PAL

0 ; LOW LEVEL (GND)
1 ; HIGH LEVEL (VDD)

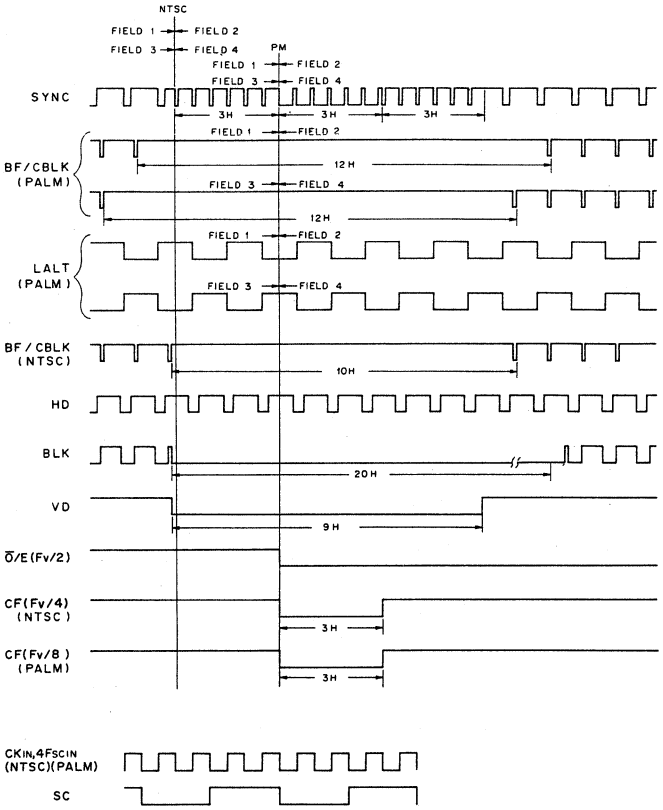
INPUTS		FUNCTION
EXT	TEST	
0	0	INTERNAL
0	1	INVALID
1	0	EXT
1	1	TEST

TEST "0": OPEN (INTERNALLY PULLED DOWN)

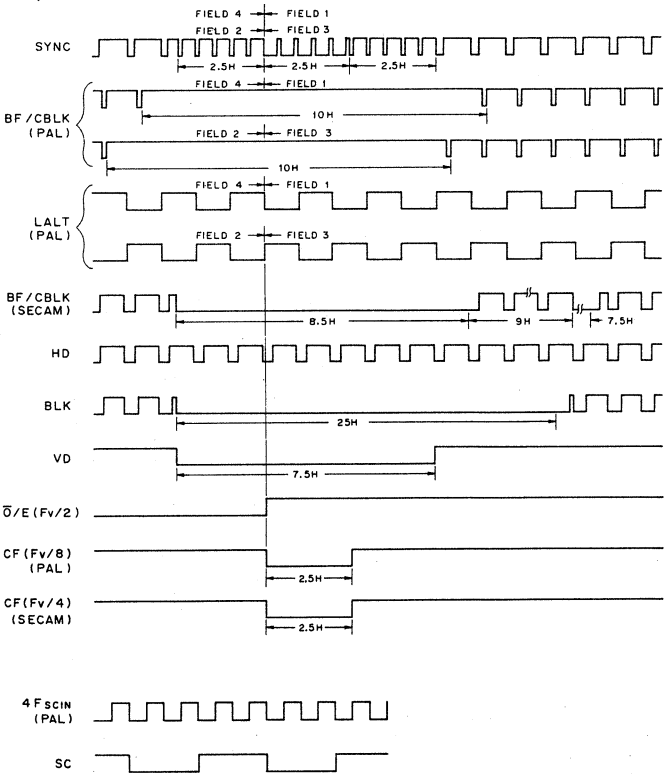
NTSC, PAL-M (FIELD 1,3)



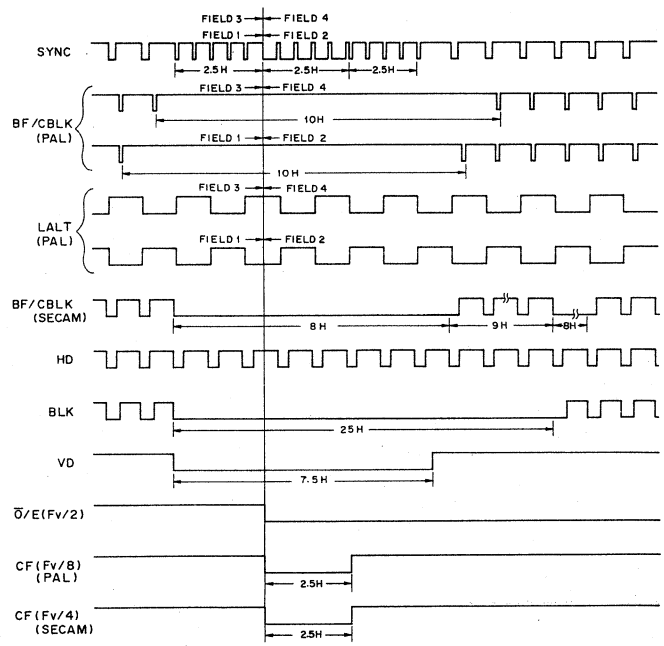
NTSC, PAL-M (FIELD 2, 4)



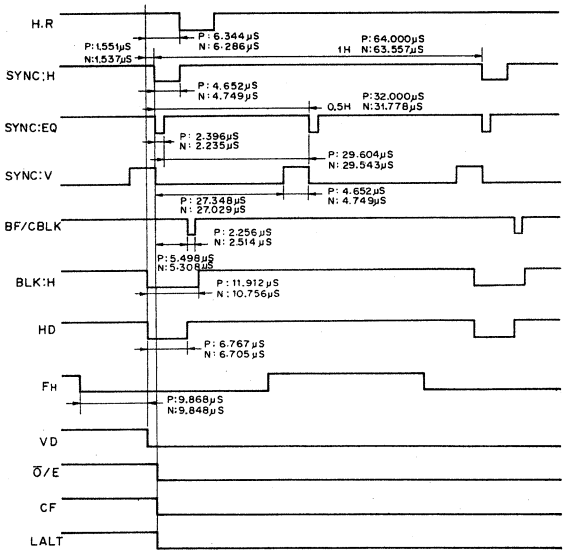
PAL, SECAM (FIELD 1, 3)



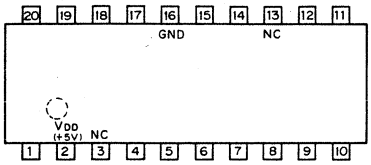
PAL, SECAM (FIELD 4, 2)



P: PAL, SECAM
N: NTSC, PALM

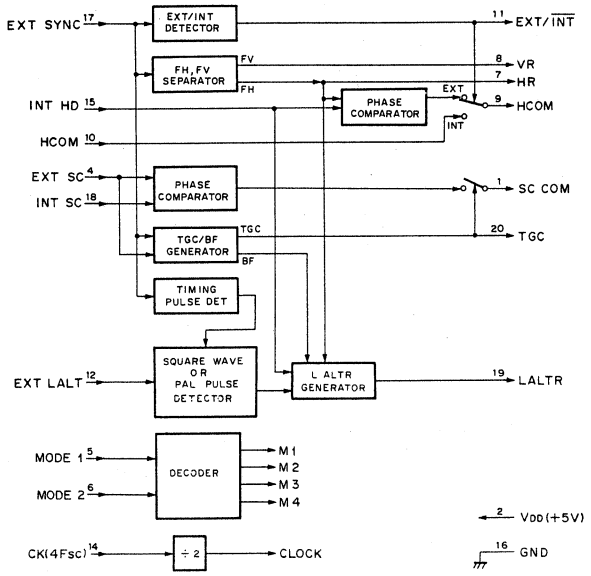


CX7998 (SONY) FLAT PACKAGE
C-MOS GENLOCK DRIVER
— TOP VIEW —

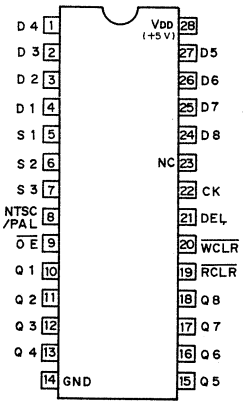


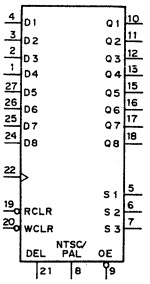
INPUTS		EXT LOCK MODE	
MODE 1	MODE 2		
0	0	M 1	PAL:VBS
1	0	M 2	PAL-M:VBS
0	1	M 3	PAL:VS/SC/LALT
			SECAM:VS/SC/LALT
1	1	M 4	NTSC:VBS
			NTSC:VS/SC
			PAL-M:VS/SC/LALT

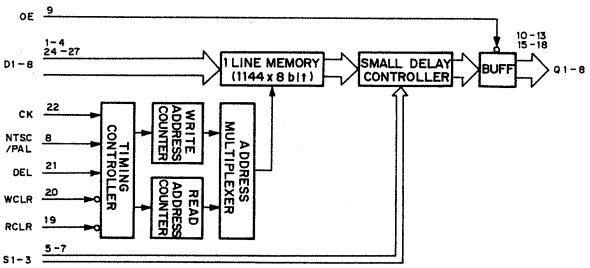
0; LOW LEVEL
1; HIGH LEVEL



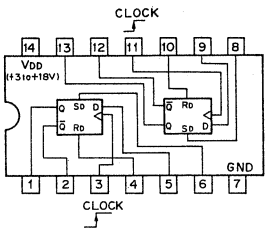
CXK1202S (SONY)
C-MOS DIGITAL DELAY LINE
— TOP VIEW —







HD14013BFP (HITACHI) FLAT PACKAGE
C-MOS D-TYPE FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —



DIRECT R-S FLIP FLOP

Sd	Rd	Q	$\overline{Q}$
0	0	On	$\overline{On}$
0	1	0	1
1	0	1	0
1	1	1	1

D-TYPE FLIP FLOP

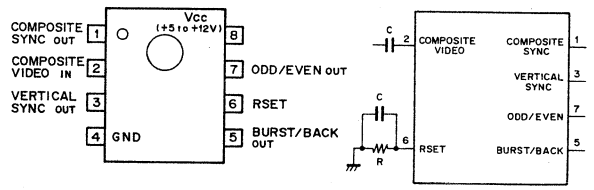
CKn	CKn+1
D	Q
0	0
1	1

CLOCK CK: ↓

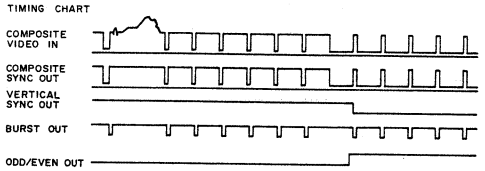
0; LOW LEVEL
1; HIGH LEVEL

CKn; BEFORE CLOCK
CKn+1; AFTER CLOCK

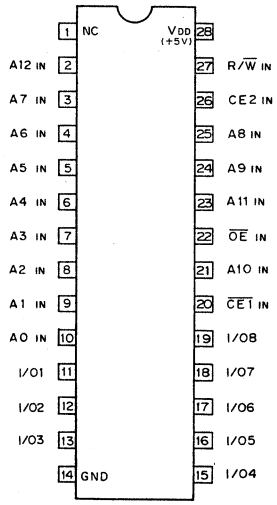
LM1881N (NS)
VIDEO SYNC SEPARATOR
– TOP VIEW –

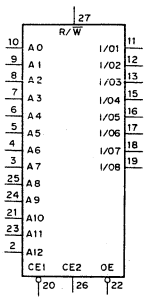


TIMING CHART



HM626LFP-15SL (HITACHI) (ACCESS TIME=150nS) FLAT PACKAGE
C-MOS 8192 WORDx8-BIT STATIC RAM
– TOP VIEW –

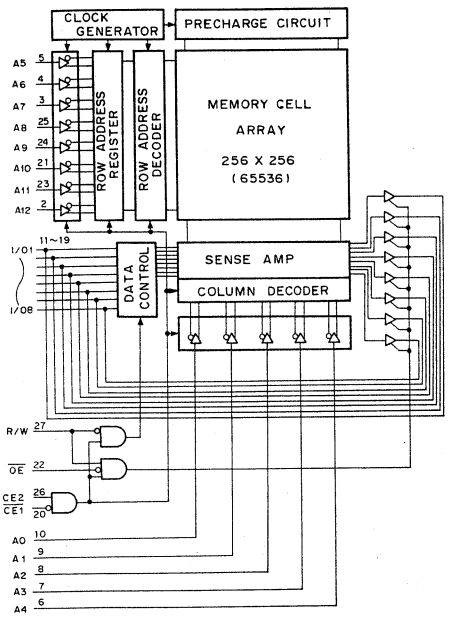




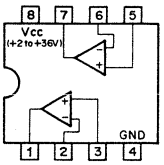
A0–12 ; ADDRESS INPUTS
CE1,2 ; CHIP ENABLE INPUTS
OE ; OUTPUT ENABLE INPUT
I/01–8 ; DATA INPUTS/OUTPUTS
R/W ; READ/WRITE INPUT

MODE	$\overline{CE1}$	CE2	$\overline{OE}$	R/$\overline{W}$	I/01~8
READ	0	1	0	1	DATA OUTPUTS
WRITE	0	1	X	0	DATA INPUTS
OUTPUT DESELECT	0	1	1	1	HI-Z
STANDBY	1	X	X	X	HI-Z
	X	0	X	X	HI-Z

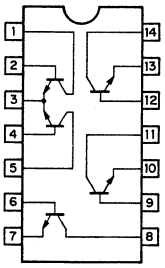
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



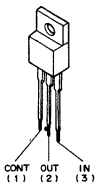
LM2903M (RAYTHEON) FLAT PACKAGE
VOLTAGE COMPARATOR
– TOP VIEW –

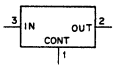


LM3046N (NSC)
NPN TRANSISTOR ARRAY
— TOP VIEW —

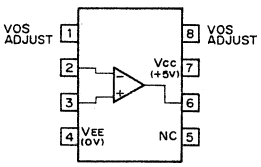


LM317LZ (NSC)
LM317T (NSC)
3-TERMINAL ADJUSTABLE REGULATOR

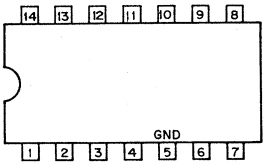


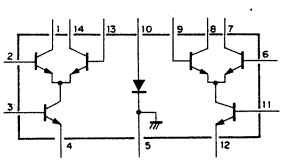


LM6361M (NEC)
HIGH SPEED OPERATIONAL AMPLIFIER
– TOP VIEW –

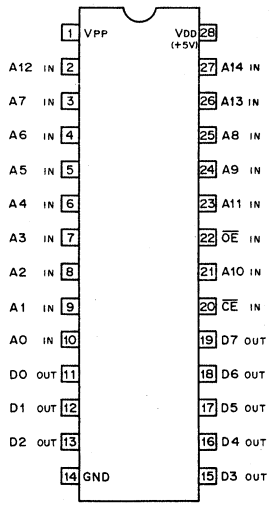


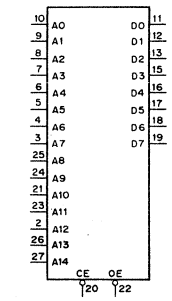
M5109P (MITSUBISHI)
DIFFERENTIAL AMPLIFIER
— TOP VIEW —

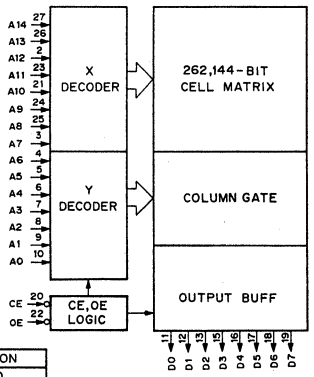




MBM27C256-25 (FUJITSU) (ACCESS TIME=250nS)
MBM27C256-25-X (FUJITSU) (ACCES TIME=250nS)
C-MOS 256K (32Kx8)-BIT ERASABLE PROM WITH 3-STATE OUTPUTS
– TOP VIEW –





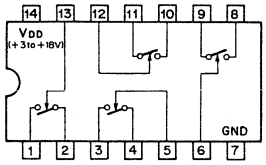


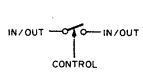
$\overline{A0}$ – A14 : ADDRESS INPUT
$\overline{CE}$: CHIP ENABLE INPUT
$\overline{D0}$ – D7 : DATA OUTPUT
$\overline{OE}$: OUTPUT ENABLE INPUT
V_{PP} : PROGRAM POWER SUPPLY

An	$\overline{CE}$	$\overline{OE}$	V_{PP}	Dn	FUNCTION
An	0	0	+ 5V	D_{OUT}	READ
An	0	1	+ 5V	HI-Z	OUTPUT DISABLE
X	1	X	+ 5V	HI-Z	STANDBY
An	0	1	+ 21V	D_{IN}	PGM
An	0	0	+ 21V	D_{OUT}	PGM VERIFY
X	1	1	+ 21V	HI-Z	PGM INH

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE
HI-Z : HIGH IMPEDANCE

MC14066BF (MOTOROLA) FLAT PACKAGE
C-MOS BILATERAL ANALOG SWITCH
– TOP VIEW –

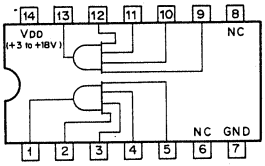


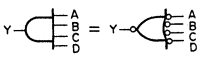


CONTROL	SWITCH
0	OFF
1	ON

0 ; LOW LEVEL
1 ; HIGH LEVEL

MC14082BF (MOTOROLA) FLAT PACKAGE
C-MOS 4-INPUT AND GATE
– TOP VIEW –



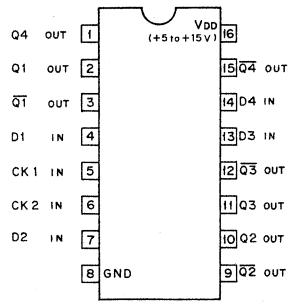


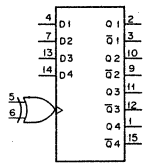
$Y = ABCD = \overline{\bar{A}+\bar{B}+\bar{C}+\bar{D}}$

D	C	B	A	Y
X	X	X	0	0
X	X	0	X	0
X	0	X	X	0
0	X	X	X	0
1	1	1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

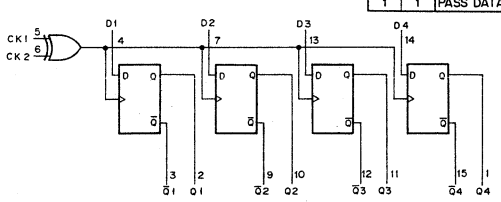
MC14042BF (MOTOROLA) FLAT PACKAGE
TC4042BF (TOSHIBA) FLAT PACKAGE
C-MOS D-TYPE LATCH
— TOP VIEW —



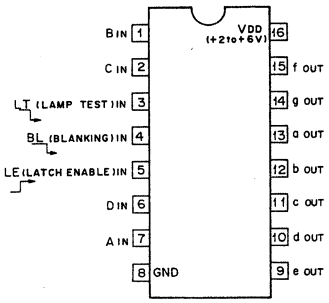


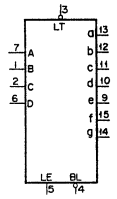
FUNCTION TABLE

CK1	CK2	Q / $\overline{Q}$
0	0	PASS DATA
0	1	LATCH DATA
1	0	LATCH DATA
1	1	PASS DATA



MC14511BF (MOTOROLA) FLAT PACKAGE
TC4512BF (TOSIBA)
C-MOS BCD TO 7 SEGMENT LATCH/DECODER/DRIVER
– TOP VIEW –





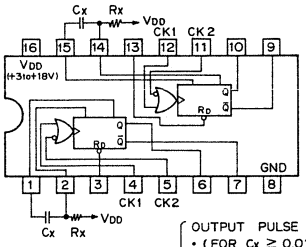
INPUTS							OUTPUTS							DISPLAY
LE	BL	LT	D	C	B	A	a	b	c	d	e	f	g	
X	X	0	X	X	X	X	1	1	1	1	1	1	1	8
X	0	1	X	X	X	X	0	0	0	0	0	0	0	BLANK
0	1	1	0	0	0	0	1	1	1	1	1	1	0	0
0	1	1	0	0	0	1	0	1	1	0	0	0	0	1
0	1	1	0	0	1	0	1	1	0	1	1	0	1	2
0	1	1	0	0	1	1	1	1	1	1	0	0	1	3
0	1	1	0	1	0	0	0	1	1	0	0	1	1	4
0	1	1	0	1	0	1	1	0	1	1	0	1	1	5
0	1	1	0	1	1	0	0	0	1	1	1	1	1	6
0	1	1	0	1	1	1	1	1	1	0	0	0	0	7
0	1	1	1	0	0	0	1	1	1	1	1	1	1	8
0	1	1	1	0	0	1	1	1	1	0	0	1	1	9
0	1	1	1	0	1	0	0	0	0	0	0	0	0	BLANK
0	1	1	1	0	1	1	0	0	0	0	0	0	0	BLANK
0	1	1	1	1	0	0	0	0	0	0	0	0	0	BLANK
0	1	1	1	1	0	1	0	0	0	0	0	0	0	BLANK
0	1	1	1	1	1	0	0	0	0	0	0	0	0	BLANK
0	1	1	1	1	1	1	0	0	0	0	0	0	0	BLANK
1	1	1	X	X	X	X	★							★

0 ; LOW
1 ; HIGH
X ; LOW OR HIGH
★ ; DEPEND UPON THE BCD CODE PREVIOUSLY APPLIED WHEN LE = 0.

MC14528BF (MOTOROLA) FLAT PACKAGE

C-MOS RETRIGGERABLE/RESETTABLE MMV

– TOP VIEW –



INPUTS			OUTPUTS	
CK1	CK2	Rd	Q	$\overline{Q}$
↓	1	1	↑	↓
↓	0	1	0	1
1	↑	1	0	1
0	↑	1	↑	↓
X	X	0	0	1

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

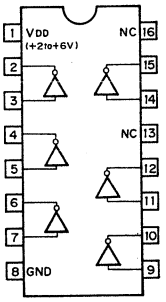
OUTPUT PULSE WIDTH Q OR $\overline{Q}$
- (FOR Cx ≧ 0.01μF USE FORMULA)
  PW = 0.2 · Rx · Cx · ℓn (VDD – GND)
- (FOR Cx < 0.01μF USE DATA BOOK.)

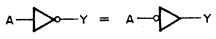
MC74HC4049F (TOSHIBA)

TC74HC4049F (TOSHIBA) FLAT PACKAGE

C-MOS HEX BUFFER/CONVERTER (INVERTING)

— TOP VIEW —





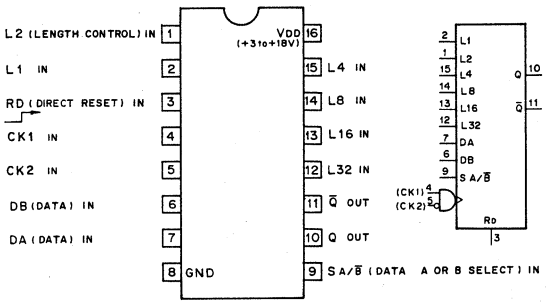
A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

MC14557BCP (MOTOROLA)

C-MOS 1-TO-64-BIT VARIABLE LENGTH SHIFT REGISTER

— TOP VIEW —



LENGTH SELECT TRUTH TABLE

L32	L16	L8	L4	L2	L1	REGISTER LENGTH
0	0	0	0	0	0	1 - BIT
0	0	0	0	0	1	2 - BIT
0	0	0	0	1	0	3 - BIT
0	0	0	0	1	1	4 - BIT
0	0	0	1	0	0	5 - BIT
⋮	⋮	⋮	⋮	⋮	⋮	⋮
1	1	1	1	0	0	61 - BIT
1	1	1	1	0	1	62 - BIT
1	1	1	1	1	0	63 - BIT
1	1	1	1	1	1	64 - BIT

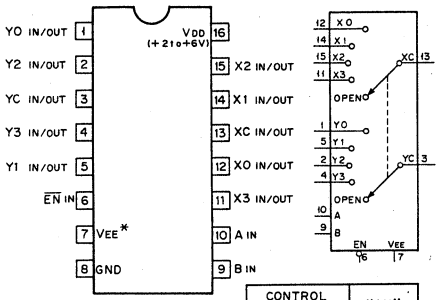
INPUTS				OUTPUT
RD	SA/B	CK1	CK2	Q
0	0	↓	0	DB
0	1	↓	0	DA
0	0	1	↑	DB
0	1	1	↑	DA
1	X	X	X	0

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

MC74HC4052F (MOTOROLA) FLAT PACKAGE

C-MOS 4-CHANNEL MULTIPLEXER/DEMULTIPLEXER

– TOP VIEW –



VEE* ; VDD – VEE = +3 to +12V

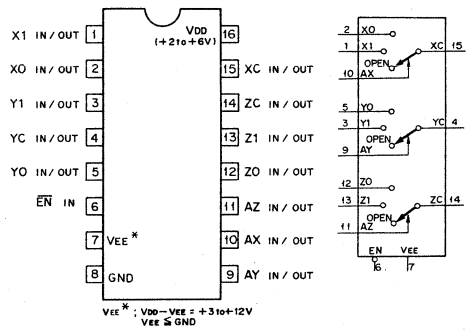
CONTROL INPUTS			"ON" CHANNEL
$\overline{EN}$	B	A	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	X	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE.

MC74HC4053F (MOTOROLA) FLAT PACKAGE

C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER

– TOP VIEW –



VEE* ; VDD – VEE = +3to+12V
VEE ≦ GND

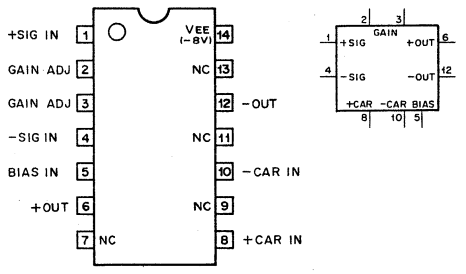
CONT. INPUTS		ON CHANNEL
$\overline{EN}$	A (X,Y,Z)	
0	0	0
0	1	1
1	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE.

MC1496P (MOTOROLA)

BALANCED MODULATOR/DEMODULATOR

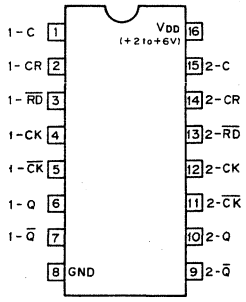
– TOP VIEW –

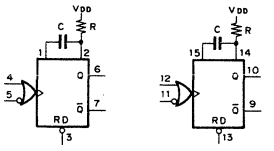


MC74HC4538F (MOTOROLA) FLAT PACKAGE

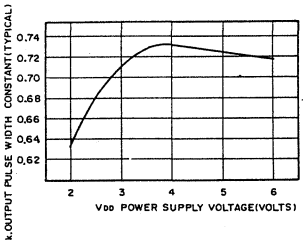
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR

– TOP VIEW –

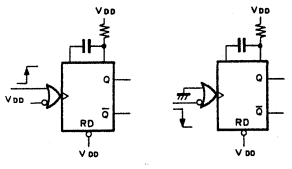




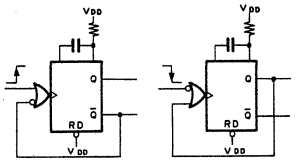
OUTPUT PULSE WIDTH = k·C·R



RETRIGGERABLE M.M.V



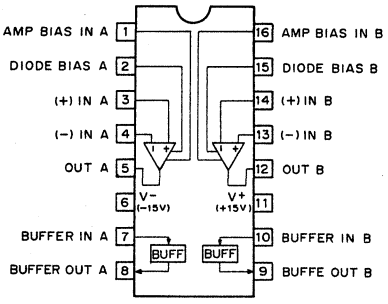
NON-RETRIGGERABLE M.M.V



NJM13700M (JRC) FLAT PACKAGE

DUAL OPERATIONAL TRANSCONDUCTANCE AMPLIFIER

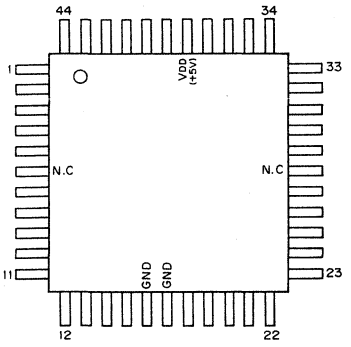
— TOP VIEW —



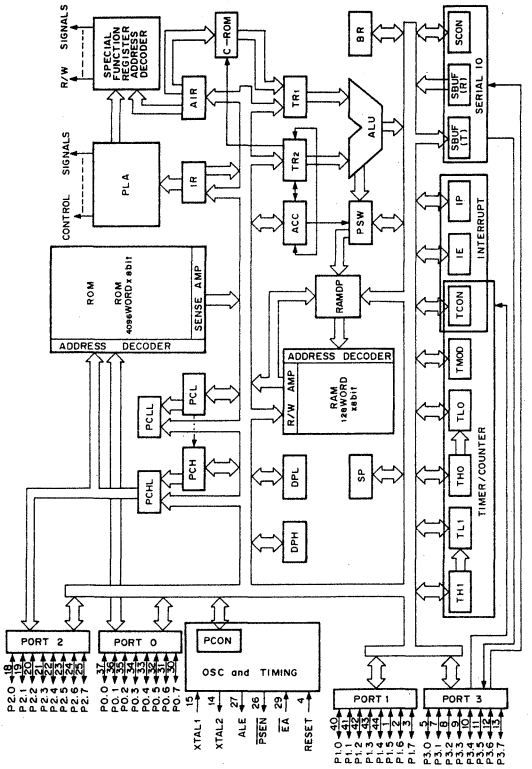
MSM8031FVGS-V1K (OKI)

C-MOS 8-BIT 1 CHIP MICROCOMPUTER

– TOP VIEW –

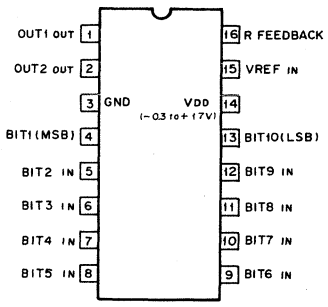


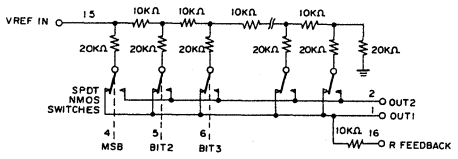
PIN No.	I/O	FUNCTION	PIN No.	I/O	FUNCTION
1	I/O	P1.5	23	I/O	P2.5
2	I/O	P1.6	24	I/O	P2.6
3	I/O	P1.7	25	I/O	P2.7
4	I	RESET	26	O	$\overline{PSEN}$
5	I/O	P3.0/RXD	27	O	ALE
6		N.C	28		N.C
7	I/O	P3.1/TXD	29	I	$\overline{EA}$
8	I/O	P3.2/$\overline{INT0}$	30	I/O	P0.7
9	I/O	P3.3/$\overline{INT1}$	31	I/O	P0.6
10	I/O	P3.4/T0	32	I/O	P0.5
11	I/O	P3.5/T1/HPD1	33	I/O	P0.4
12	I/O	P3.6/$\overline{WR}$	34	I/O	P0.3
13	I/O	P3.7/$\overline{RD}$	35	I/O	P0.2
14	O	XTAL2	36	I/O	P0.1
15	I	XTAL1	37	I/O	P0.0
16		GND	38		V_{DD}(+5V)
17		GND	39		N.C
18	I/O	P2.0	40	I/O	P1.0/T2
19	I/O	P2.1	41	I/O	P1.1/T2EX
20	I/O	P2.2	42	I/O	P1.2
21	I/O	P2.3	43	I/O	P1.3
22	I/O	P2.4	44	I/O	P1.4



NJU8101M (NEC) FLAT PACKAGE

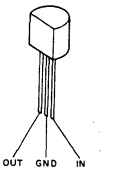
C-MOS 10-BIT MULTIPLYING D/A CONVERTER
– TOP VIEW –

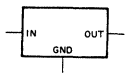




RC78L ? ?A (RAYTHEON)

POSITIVE VOLTAGE REGULATOR (100mA)

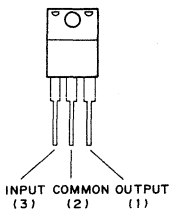


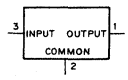


OUTPUT VOLTAGE	NJM78L??A	RC78L??A	uA78L??ACL	uA78L??AWV	uPC78L??J	AN78L??
+2.6V	NJM78L02A	RC78L02A	uA78L02ACL	uA78L26AWV	---------	-------
+4V	---------	---------	----------	----------	---------	AN78L04
+5V	NJM78L05A	RC78L05A	uA78L05ACL	uA78L05AWV	uPC78L05J	AN78L05
+6V	NJM78L06A	RC78L06A	----------	----------	---------	AN78L06
+6.2V	---------	--------	uA78L06ACL	uA78L62AWV	---------	-------
+7V	---------	---------	----------	----------	---------	AN78L07
+8V	NJM78L08A	RC78L08A	uA78L08ACL	----------	uPC78L08J	AN78L08
+8.2V	---------	--------	----------	uA78L82AWV	---------	-------
+9V	NJM78L09A	RC78L09A	uA78L09ACL	uA78L09AWV	---------	AN78L09
+10V	---------	--------	uA78L10ACL	----------	uPC78L10J	AN78L10
+12V	NJM78L12A	RC78L12A	uA78L12ACL	uA78L12AWV	uPC78L12J	AN78L12
+15V	NJM78L15A	RC78L15A	uA78L15ACL	uA78L15AWV	uPC78L15J	AN78L15
+18V	NJM78L18A	RC78L18A	----------	uA78L18AWV	---------	AN78L18
+20V	NJM78L20A	RC78L20A	----------	----------	---------	AN78L20
+24V	NJM78L24A	RC78L24A	----------	uA78L24AWV	---------	AN78L24

RC78M ? ?FA (RAYTHEON)

POSITIVE VOLTAGE REGULATOR
– FRONT VIEW –

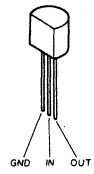


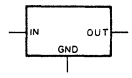


OUTPUT VOLTAGE	NJM78M??FA	NJM78??FA	RC78M??FA	RC78??FA
+5V	NJM78M05FA	NJM7805FA	RC78M05FA	RC7805FA
+6V	NJM78M06FA	NJM7806FA	RC78M06FA	RC7806FA
+8V	NJM78M08FA	NJM7808FA	---------	RC7808FA
+9V	NJM78M09FA	NJM7809FA	RC78M09FA	RC7809FA
+12V	NJM78M12FA	NJM7812FA	RC78M12FA	RC7812FA
+15V	NJM78M15FA	NJM7815FA	RC78M15FA	RC7815FA
+18V	NJM78M18FA	NJM7818FA	---------	RC7818FA
+20V	NJM78M20FA	NJM7820FA	---------	RC7820FA
+24V	NJM78M24FA	NJM7824FA	---------	RC7824FA

RC79L ? ?A (RAYTHEON)

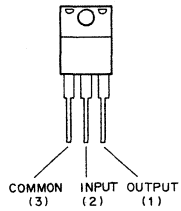
NEGATIVE VOLTAGE REGULATOR (100mA)
– FRONT VIEW –



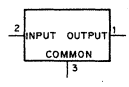


OUTPUT VOLTAGE	NJM79L??A	RC79L??A	AN79L??
-3V	NJM79L03A	RC79L03A	-------
-4V	---------	--------	AN79L04
-5V	NJM79L05A	RC79L05A	AN79L05
-6V	NJM79L06A	RC79L06A	AN79L06
-7V	---------	--------	AN79L07
-8V	NJM79L08A	RC79L08A	AN79L08
-9V	NJM79L09A	RC79L09A	AN79L09
-10V	---------	--------	AN79L10
-12V	NJM79L12A	RC79L12A	AN79L12
-15V	NJM79L15A	RC79L15A	AN79L15
-18V	NJM79L18A	RC79L18A	AN79L18
-20V	---------	--------	AN79L20
-24V	NJM79L24A	RC79L24A	AN79L24

RC79M??FA (JRC)
NEGATIVE VOLTAGE REGULATOR
— FRONT VIEW —

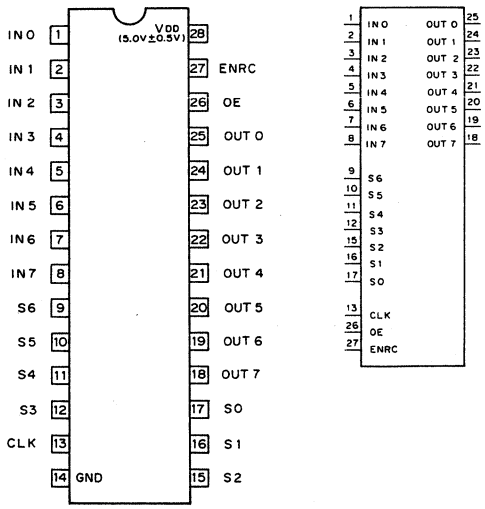


-5V	NJM79M05FA
-6V	NJM79M06FA
-8V	NJM79M08FA
-9V	NJM79M09FA
-12V	NJM79M12FA
-15V	NJM79M15FA
-18V	NJM79M18FA
-24V	NJM79M24FA

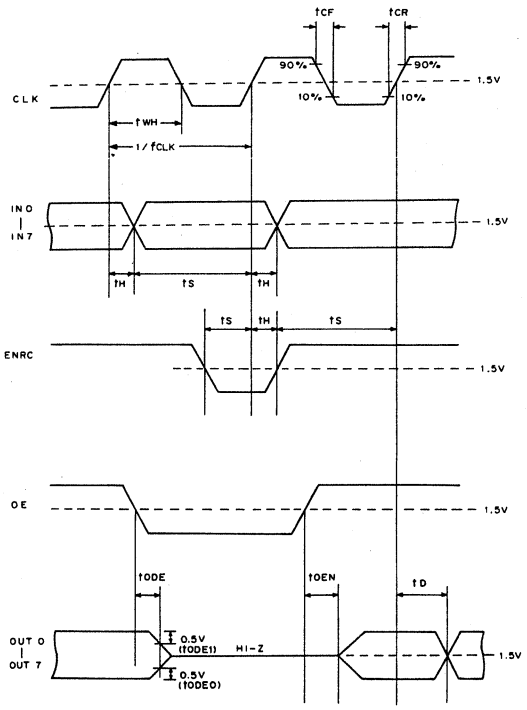


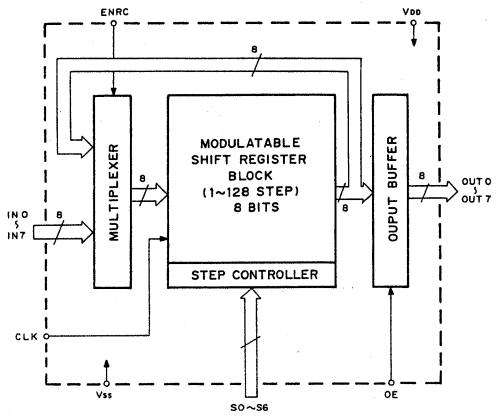
SM5828P (NPC)

C-MOS 128 STEPS 8 BITS PROGRAMABLE SHIFT REGISTER
– TOP VIEW –



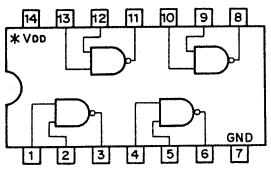
CLK ; CLOCK INPUT
ENRC ; CIRCULATION CONTROL
IN0-IN7 ; DATA INPUT
OE ; OUTPUT ENABLE
OUT0-OUT7 ; DATA OUTPUT
S0-S6 ; REGISTER LENGTH SELECT

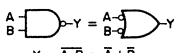




SN74HC00NS (TI) FLAT PACKAGE
TC74HC00F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT NAND GATE
– TOP VIEW –



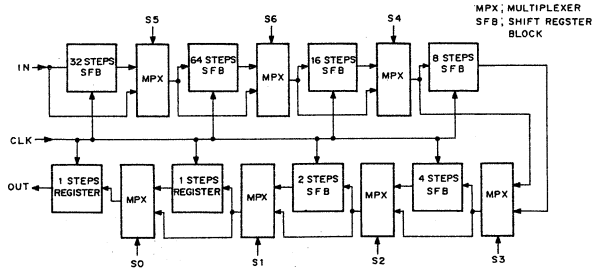


A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

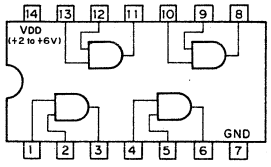
0; LOW LEVEL
1; HIGH LEVEL

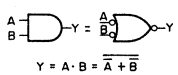
*VDD AC, HC; +2 to +6V
HCT; +5V

MODULATABLE SHIFT REGISTER BLOCK



SN74HC08NS (MOTOROLA) FLAT PACKAGE
TC74HC08F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT AND GATE
— TOP VIEW —

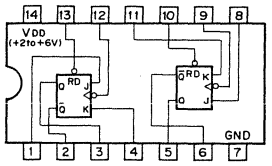




A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0; LOW LEVEL
1; HIGH LEVEL

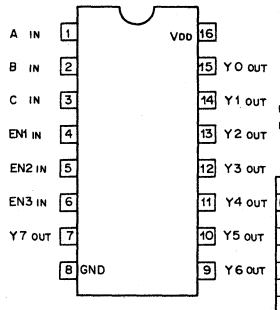
SN74HC107NS (TI) FLAT PACKAGE
C-MOS DUAL J-K FLIP-FLOPS
— TOP VIEW —

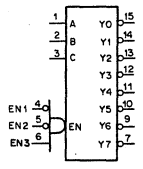


INPUT				OUTPUT
RD	CK	J	K	Q
0	X	X	X	0
1	↓	0	0	NO CHANGE
1	↓	1	0	1
1	↓	0	1	0
1	↓	1	1	TOGGLE

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE

SN74HC138NS (TI) (V_{DD} = +2 to +6V) FLAT PACKAGE
C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER
— TOP VIEW —



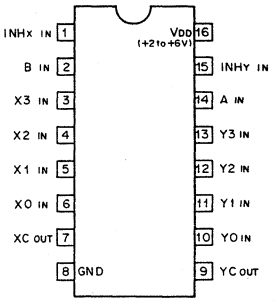


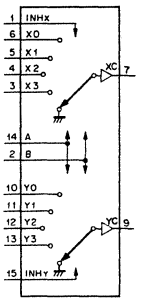
INPUTS				OUTPUTS							
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
0	X	X	X	1	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	0
1	0	0	1	1	1	1	1	1	1	0	1
1	0	1	0	1	1	1	1	1	0	1	1
1	0	1	1	1	1	1	1	0	1	1	1
1	1	0	0	1	1	1	0	1	1	1	1
1	1	0	1	1	1	0	1	1	1	1	1
1	1	1	0	1	0	1	1	1	1	1	1
1	1	1	1	0	1	1	1	1	1	1	1

EN = $\overline{EN1} \cdot \overline{EN2} \cdot EN3$

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

SN74HC153NS (TI) FLAT PACKAGE
C-MOS 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
— TOP VIEW —

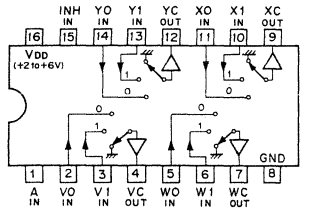


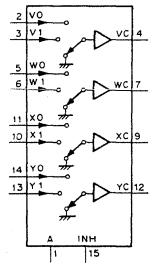


CONTROL IN			ON CHANNEL
INH	B	A	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	X	X	GND

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

SN74HC157N (TI)
C-MOS 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
— TOP VIEW —

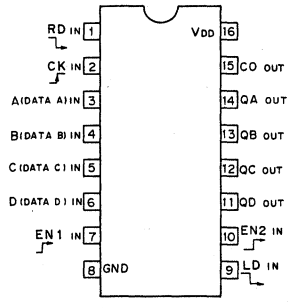


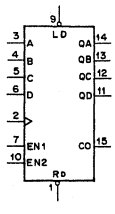


CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	GND

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

SN74HC163NS (TI) (V_{DD} = +2 to +6V) FLAT PACKAGE
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
— TOP VIEW —

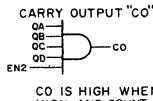




MODE SELECTION

CONTROL INPUTS				MODE
RD	LD	EN1	EN2	
0	X	X	X	RESET (SYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

CARRY OUTPUT "CO"

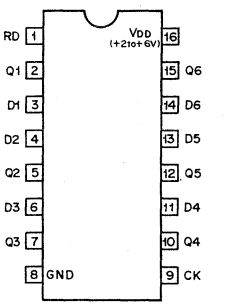


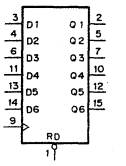
CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

COUNT SEQUENCE

COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

SN74HC174NS (TI) FLAT PACKAGE
C-MOS D-TYPE FLIP-FLOP WITH RESET
— TOP VIEW —

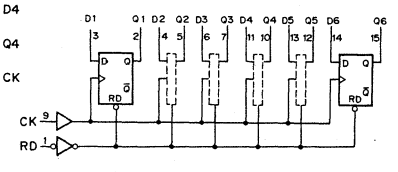




EACH FLIP-FLOP

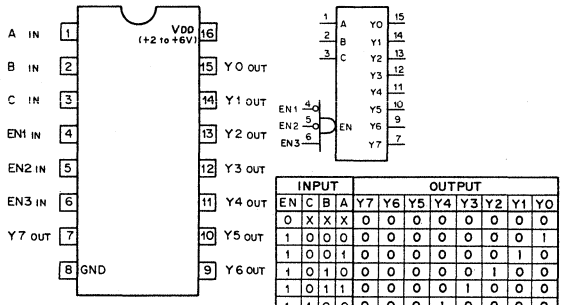
INPUT			OUT
RD	CK	D	Q
0	X	X	0
1	↓	0	0
1	↓	1	1
1	0	X	Q0

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE



SN74HC238NS (TI) FLAT PACKAGE
C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER
— TOP VIEW —

TC74HC238P

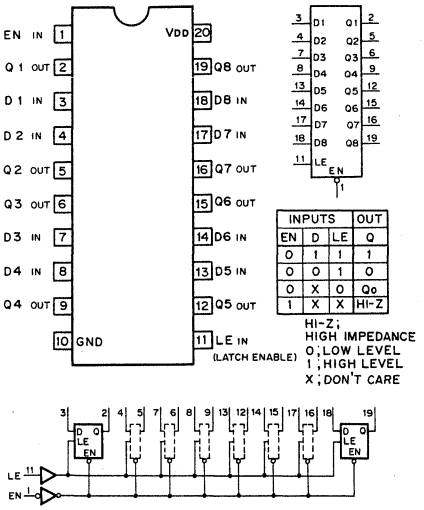


INPUT				OUTPUT							
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
0	X	X	X	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	1
1	0	0	1	0	0	0	0	0	0	1	0
1	0	1	0	0	0	0	0	0	1	0	0
1	0	1	1	0	0	0	0	1	0	0	0
1	1	0	0	0	0	0	1	0	0	0	0
1	1	0	1	0	0	1	0	0	0	0	0
1	1	1	0	0	1	0	0	0	0	0	0
1	1	1	1	1	0	0	0	0	0	0	0

$EN = \overline{EN1} \cdot \overline{EN2} \cdot EN3$

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

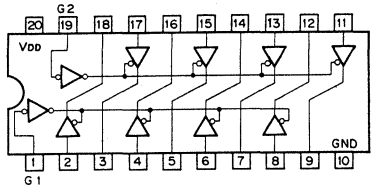
SN74HC373NS (TI) (V_{DD} = +2 to +6V) FLAT PACKAGE
TC74HC373F (TOSHIBA) (V_{DD} = +2 to +6V) FLAT PACKAGE
C-MOS 3-STATE OUTPUTS OCTAL LATCHES
— TOP VIEW —

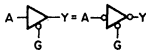


INPUTS			OUT
EN	D	LE	Q
0	1	1	1
0	0	1	0
0	X	0	Q0
1	X	X	HI-Z

HI-Z ; HIGH IMPEDANCE
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

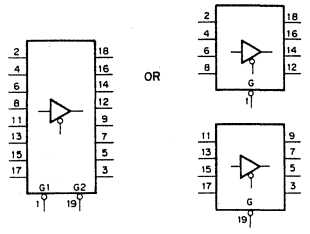
SN74HC244NS (TI) (V_{DD} = +2 to +6V) FLAT PACKAGE
C-MOS BUS BUFFER WITH 3-STATE OUTPUTS
— TOP VIEW —



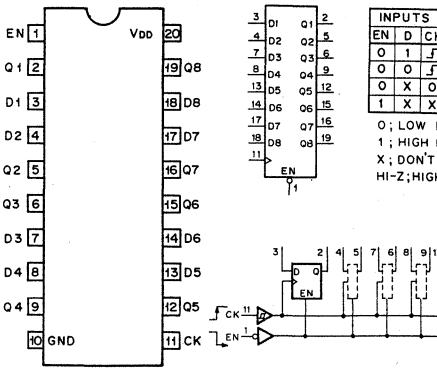


G	A	Y
0	0	0
0	1	1
1	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

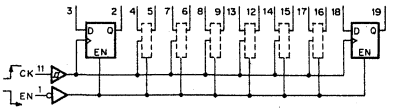


SN74HC374NS (TI) (V_{DD} = +2 to +6V) FLAT PACKAGE
C-MOS 3-STATE OCTAL D-TYPE FLIP-FLOP
— TOP VIEW —

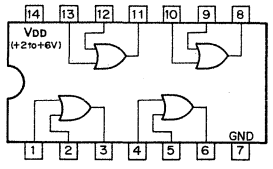


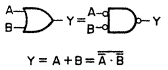
INPUTS			OUT
EN	D	CK	Q
0	1	↑	1
0	0	↑	0
0	X	0	Q0
1	X	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



SN74HC32NS (TI) FLAT PACKAGE
C-MOS 2-INPUT OR GATE
— TOP VIEW —





$Y = A + B = \overline{\overline{A} \cdot \overline{B}}$

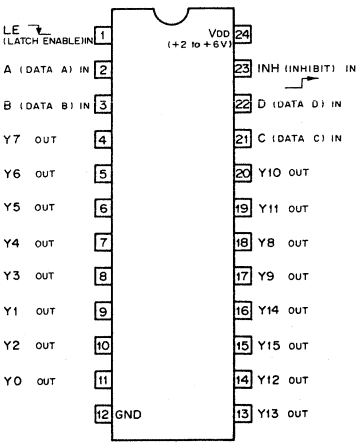
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

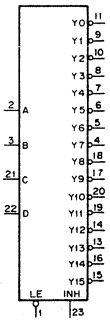
0 ; LOW LEVEL
1 ; HIGH LEVEL

SN74HC4515NT (TI) FLAT PACKAGE

C-MOS 4-LINE TO 16-LINE DECODER/DEMULTIPLEXER WITH ADDRESS LATCHES

— TOP VIEW —





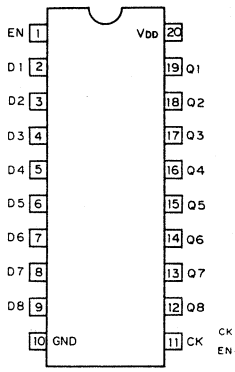
INH	LATCHED DATA				SELECTED OUTPUTS											
	D	C	B	A	Y15	Y14	Y13	Y12	----	Y4	Y3	Y2	Y1	Y0
0	0	0	0	0	1	1	1	1	----	1	1	1	1	0
0	0	0	0	1	1	1	1	1	----	1	1	1	0	1
0	0	0	1	0	1	1	1	1	----	1	1	0	1	1
0	0	0	1	1	1	1	1	1	----	1	0	1	1	1
0	0	1	0	0	1	1	1	1	----	0	1	1	1	1
0	1	1	0	0	1	1	1	0	----	1	1	1	1	1
0	1	1	0	1	1	1	0	1	----	1	1	1	1	1
0	1	1	1	0	1	0	1	1	----	1	1	1	1	1
0	1	1	1	1	0	1	1	1	----	1	1	1	1	1
1	X	X	X	X	ALL OUTPUTS = 1									

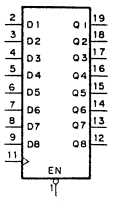
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

SN74HC574NS (TI) (V_{DD} = +2 to +6V) FLAT PACKAGE
TC74HC574F (TOSHIBA) (V_{DD} = +2 to +6V) FLAT PACKAGE

C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP

— TOP VIEW —

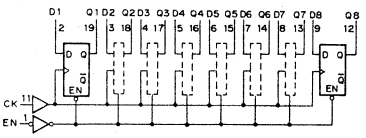




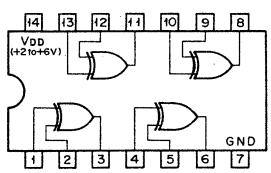
EACH FLIP-FLOP

INPUTS			OUT
EN	CK	D	Q
0	↑	1	1
0	↑	0	0
0	0	X	Qo
1	X	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE
Qo ; NO CHANGE



SN74HC86NS (TI) FLAT PACKAGE
TC74HC86F (TOSHIBA) FLAT PACKAGE
C-MOS EXCLUSIVE OR GATE
— TOP VIEW —

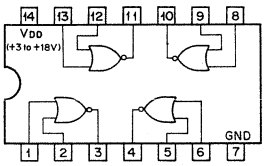


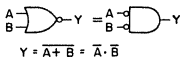
$Y = \overline{A} \cdot B + A \cdot \overline{B}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0;LOW LEVEL
1;HIGH LEVEL

TC4001BF (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NOR GATE
— TOP VIEW —



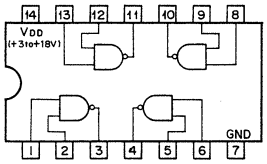


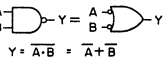
$Y = \overline{A+B} = \overline{A} \cdot \overline{B}$

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

0;LOW LEVEL
1;HIGH LEVEL

TC4011BF (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



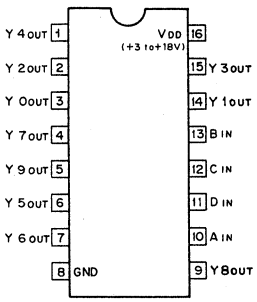


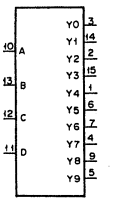
$Y = \overline{A \cdot B} = \overline{A} + \overline{B}$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0:LOW LEVEL
1:HIGH LEVEL

TC4028BF (TOSHIBA) FLAT PACKAGE
C-MOS BCD TO DECIMAL DECODER
— TOP VIEW —

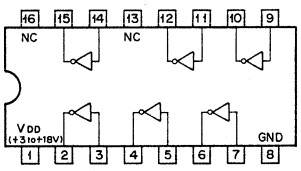


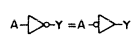


STATE	INPUTS				OUTPUTS									
	D	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9
0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
2	0	0	1	0	0	0	1	0	0	0	0	0	0	0
3	0	0	1	1	0	0	0	1	0	0	0	0	0	0
4	0	1	0	0	0	0	0	0	1	0	0	0	0	0
5	0	1	0	1	0	0	0	0	0	1	0	0	0	0
6	0	1	1	0	0	0	0	0	0	0	1	0	0	0
7	0	1	1	1	0	0	0	0	0	0	0	1	0	0
8	1	X	X	0	0	0	0	0	0	0	0	0	1	0
9	1	X	X	1	0	0	0	0	0	0	0	0	0	1

0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE

TC4049BF (TOSHIBA) FLAT PACKAGE
C-MOS INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —



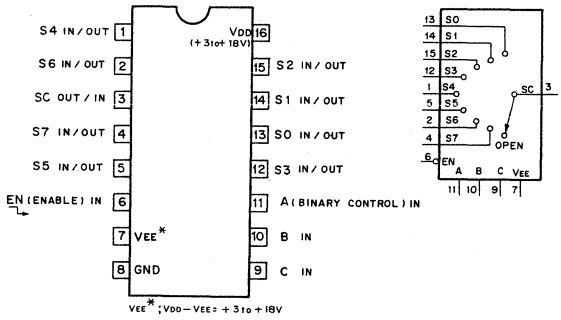


$Y = \overline{A}$

A	Y
0	1
1	0

0;LOW LEVEL
1;HIGH LEVEL

TC4051BFHB (TOSHIBA) FLAT PACKAGE
C-MOS 8-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —

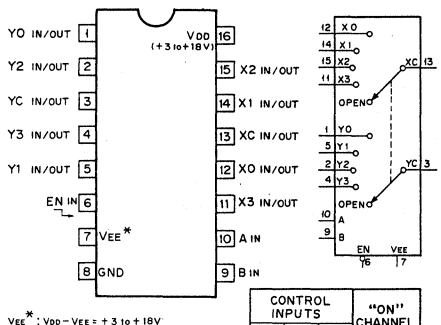


VEE*; VDD − VEE = +3 to +18V

EN	C	B	A	"ON" CHANNEL
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	X	X	X	OPEN

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

TC4052BFHB (TOSHIBA) FLAT PACKAGE
C-MOS 4-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —

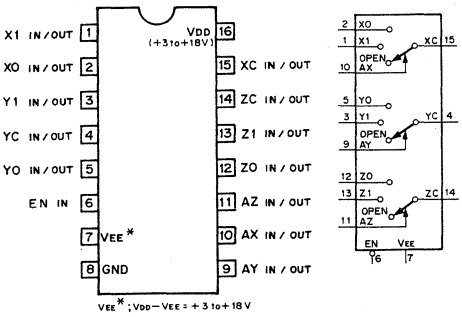


VEE*; VDD − VEE = +3 to +18V

CONTROL INPUTS			"ON" CHANNEL
EN	B	A	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	X	X	OPEN

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

TC4053BFHB (TOSHIBA) FLAT PACKAGE
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —

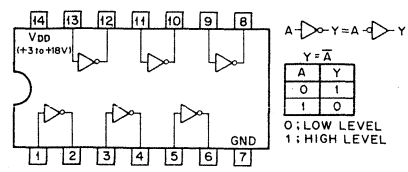


VEE*; VDD − VEE = +3 to +18V

CONT. INPUTS		ON CHANNEL
EN	A (X,Y,Z,)	
0	0	0
0	1	1
1	X	OPEN

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

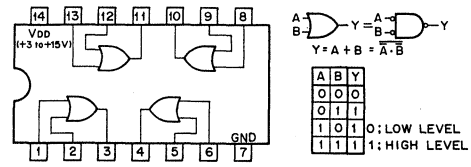
TC4069UBF (TOSHIBA) FLAT PACKAGE
C-MOS INVERTER
— TOP VIEW —



A	Y
0	1
1	0

0; LOW LEVEL
1; HIGH LEVEL

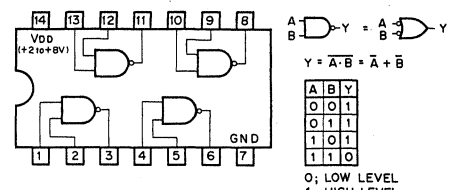
TC4071BF (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT OR GATE
— TOP VIEW —



A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0; LOW LEVEL
1; HIGH LEVEL

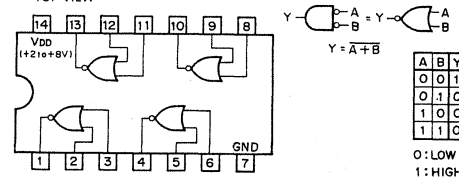
TC40H000F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

TC40H002F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NOR GATE
— TOP VIEW —



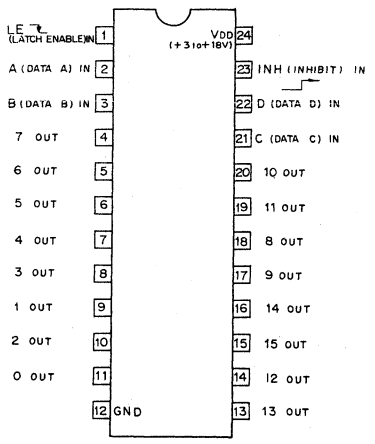
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

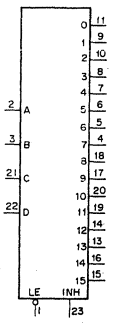
0: LOW LEVEL
1: HIGH LEVEL

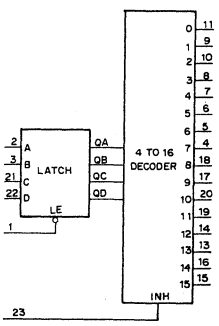
TC4514BP (TOSHIBA)

C-MOS 4-BIT LATCH/4-TO-16 LINE DECODER

– TOP VIEW –





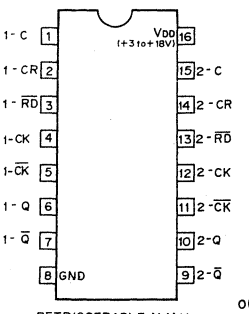


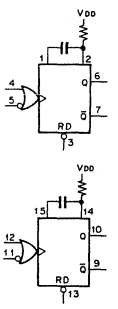
INH	LATCHED DATA				SELECTED OUTPUTS											
	QD	QC	QB	QA	15	14	13	12	----	4	3	2	1	0
0	0	0	0	0	0	0	0	0	----	0	0	0	0	1
0	0	0	0	1	0	0	0	0	----	0	0	0	1	0
0	0	0	1	0	0	0	0	0	----	0	0	1	0	0
0	0	0	1	1	0	0	0	0	----	0	1	0	0	0
0	0	1	0	0	0	0	0	0	----	1	0	0	0	0
0	1	1	0	0	0	0	1	0	----	0	0	0	0	0
0	1	1	0	1	0	0	1	1	----	0	0	0	0	0
0	1	1	1	0	0	1	0	0	----	0	0	0	0	0
0	1	1	1	1	1	0	0	0	----	0	0	0	0	0
1	X	X	X	X	ALL OUTPUTS=0									

TC4538BF (TOSHIBA) FLAT PACKAGE

C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR

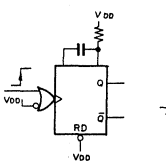
– TOP VIEW –



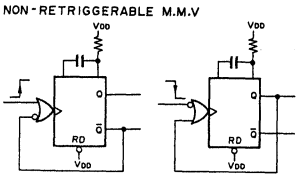


OUTPUT PULSE WIDTH=CR

RETRIGGERABLE M.M.V



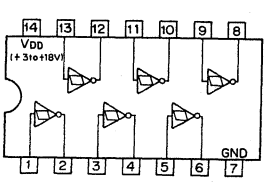
NON-RETRIGGERABLE M.M.V

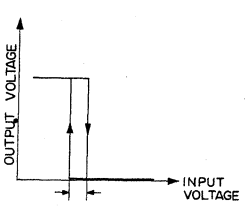


TC4584BF (TOSHIBA) FLAT PACKAGE

C-MOS SCHMITT TRIGGER INVERTER

– TOP VIEW –

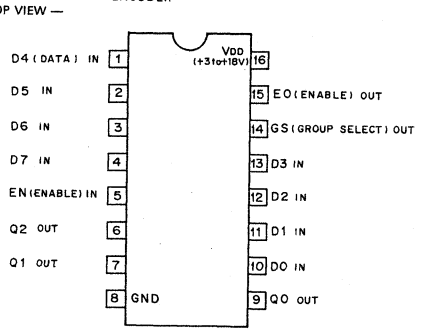


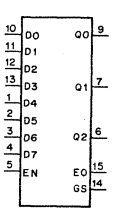


TC4532BP (TOSHIBA)

C-MOS 8-BIT PRIORITY ENCODER

— TOP VIEW —

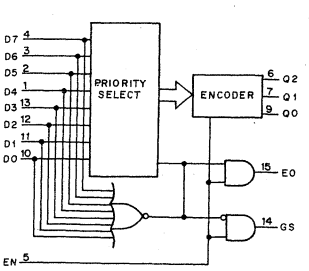




D7 IS THE HIGHEST PRIORITY

INPUTS									OUTPUTS				
EN	D7	D6	D5	D4	D3	D2	D1	D0	GS	Q2	Q1	Q0	EO
0	X	X	X	X	X	X	X	X	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	1
1	1	X	X	X	X	X	X	X	1	1	1	1	0
1	0	1	X	X	X	X	X	X	1	1	1	0	0
1	0	0	1	X	X	X	X	X	1	1	0	1	0
1	0	0	0	1	X	X	X	X	1	1	0	0	0
1	0	0	0	0	1	X	X	X	1	0	1	1	0
1	0	0	0	0	0	1	X	X	1	0	1	0	0
1	0	0	0	0	0	0	1	X	1	0	0	1	0
1	0	0	0	0	0	0	0	1	1	0	0	0	0

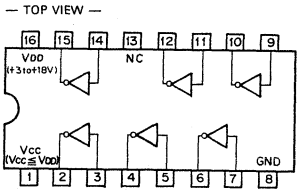
1 : HIGH LEVEL
0 : LOW LEVEL
X : DON'T CARE

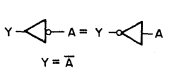


TC5020BP (TOSHIBA)

C-MOS LOW-TO-HIGH VOLTAGE TRANSLATION INVERTER

— TOP VIEW —

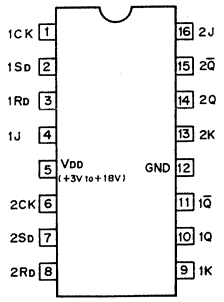


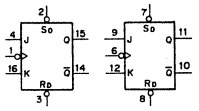


A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

TC7476BP (TOSHIBA)
C-MOS J-K FLIP-FLOP
— TOP VIEW —

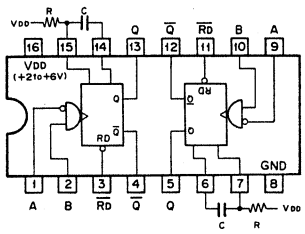




INPUTS					OUTPUTS	
$\overline{SD}$	$\overline{RD}$	CK	J	K	Qn+1	$\overline{Qn+1}$
0	1	X	X	X	1	0
1	0	X	X	X	0	1
0	0	X	X	X	0	1
1	1	↓	0	0	Qn	$\overline{Qn}$
			0	1	0	1
			1	0	1	0
			1	1	$\overline{Qn}$	Qn
1	1	↑	X	X	Qn	$\overline{Qn}$

0; LOW LEVEL X; DON'T CARE
1; HIGH LEVEL

TC74HC123F (TOSHIBA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
— TOP VIEW —

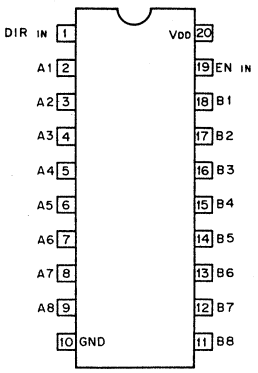


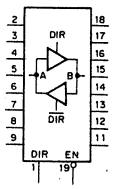
INPUT			OUTPUT	
$\overline{RD}$	A	B	Q	$\overline{Q}$
0	X	X	0	1
1	1	X	0	1
1	X	0	0	1
1	0	↓	↓	↑
1	↓	1	↓	↑
↓	0	1	↓	↑

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

OUTPUT PULSE WIDTH = 0.46CR

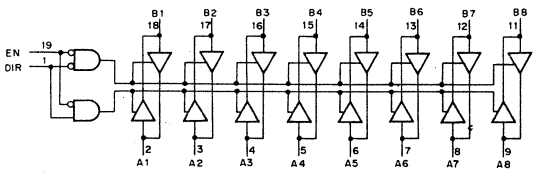
TC74HC245AF (TOSHIBA) (V_{DD} = +2 to +6V) FLAT PACKAGE
C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS
— TOP VIEW —



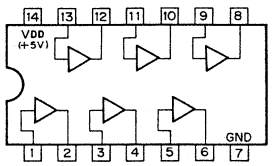


EN	DIR	OPERATION
0	0	B to A
0	1	A to B
1	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE



TC74HCT7007AF (TOSHIBA)
C-MOS HEX BUFFER
— TOP VIEW —

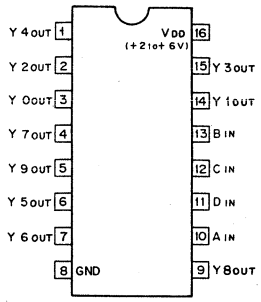


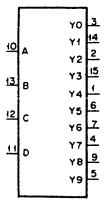
Y = A

A	Y
0	0
1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

TC74HC4028F (TOSHIBA) FLAT PACKAGE
C-MOS BCD TO DECIMAL DECODER
— TOP VIEW —

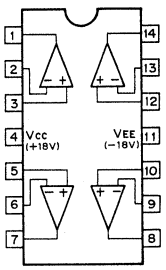




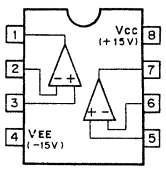
STATE	INPUTS				OUTPUTS									
	D	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9
0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
2	0	0	1	0	0	0	1	0	0	0	0	0	0	0
3	0	0	1	1	0	0	0	1	0	0	0	0	0	0
4	0	1	0	0	0	0	0	0	1	0	0	0	0	0
5	0	1	0	1	0	0	0	0	0	1	0	0	0	0
6	0	1	1	0	0	0	0	0	0	0	1	0	0	0
7	0	1	1	1	0	0	0	0	0	0	0	1	0	0
8	1	X	X	0	0	0	0	0	0	0	0	0	1	0
9	1	X	X	1	0	0	0	0	0	0	0	0	0	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

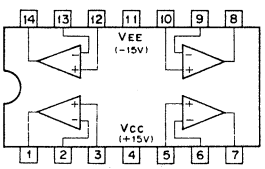
TL064CNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —



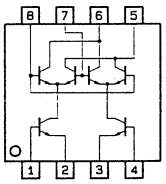
TL082CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —



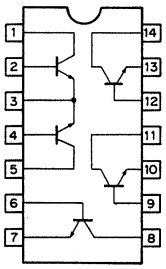
TL084CNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —



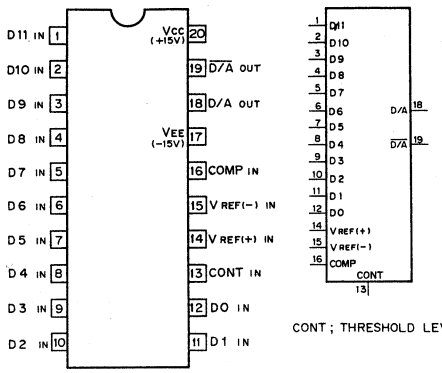
uPA101G (NEC) FLAT PACKAGE
TRANSISTOR ARRAY
— TOP VIEW —



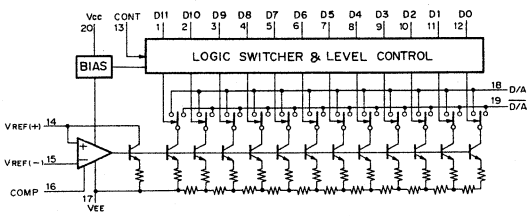
uPA103G (NEC)
DIFFERENTIAL AMPLIFIERS/PULSE PATTERN GENERATORS
— TOP VIEW —



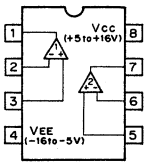
uPC648C (NEC)
12-BIT D/A CONVERTER WITH OPEN COLLECTOR OUTPUT
— TOP VIEW —



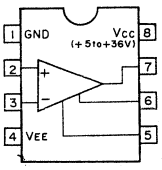
CONT ; THRESHOLD LEVEL CONTROL



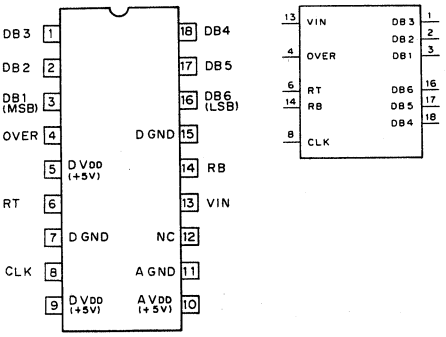
uPC814G2 (NEC) FLAT PACKAGE
TTL-DUAL OPERATIONAL AMPLIFIER
– TOP VIEW –



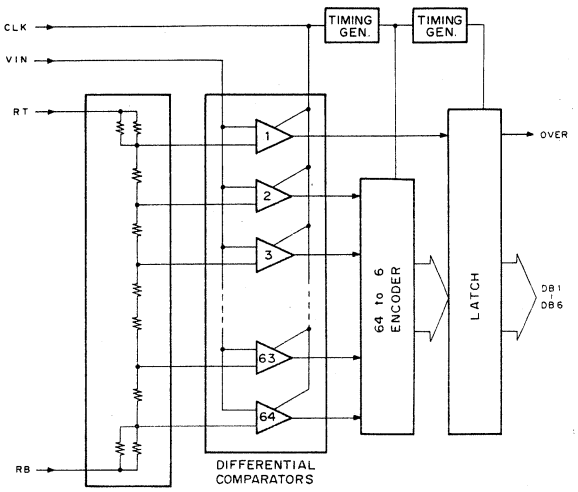
uPC311G2 (NEC) FLAT PACKAGE
VOLTAGE COMPARATOR
— TOP VIEW —

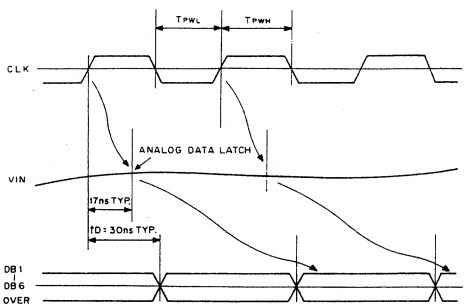


uPD6951C (NEC)
C-MOS 6-BIT 20M SPS A/D CONVERTER
— TOP VIEW —

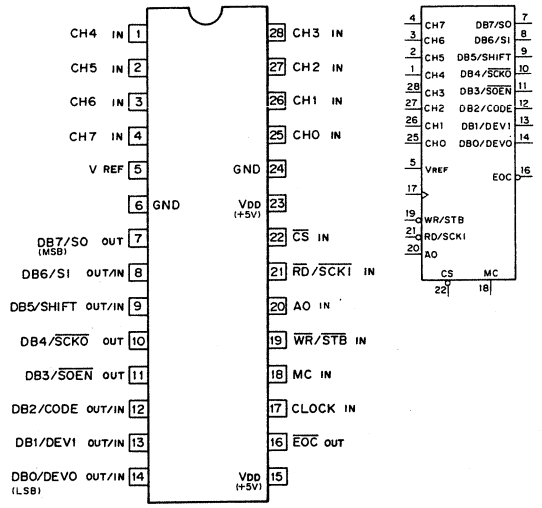


CLK ; CLOCK INPUT
DB ; DIGITAL OUTPUT
OVER ; OVER RANGE
RB ; STANDARD VOLTAGE (LOW VOLTAGE SIDE)
RT ; STANDARD VOLTAGE (HIGH VOLTAGE SIDE)
VIN ; ANALOG INPUT

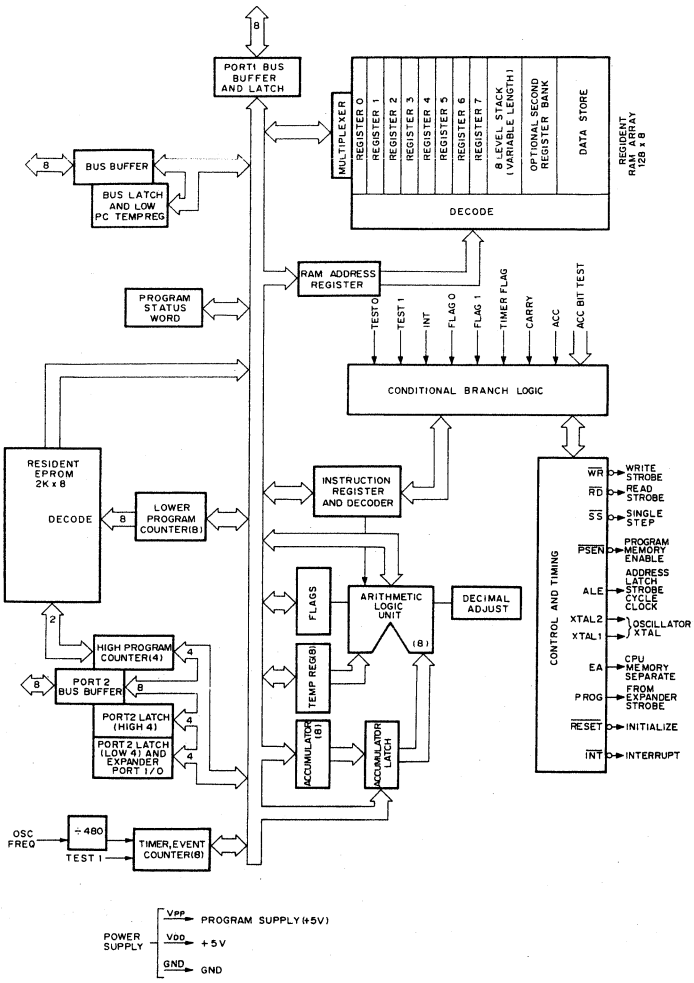




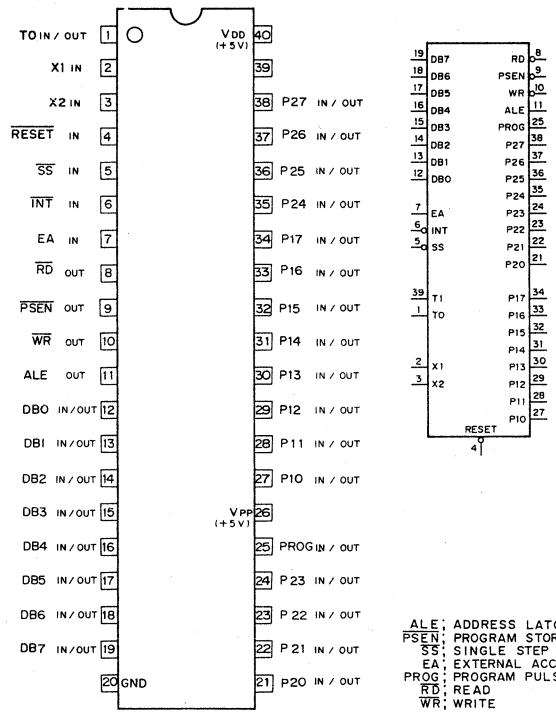
uPD7004C (NEC)
C-MOS 10-BIT SUCCESSIVE COMPARATOR TYPE A/D CONVERTER
— TOP VIEW —



AO ; CONTROL ADDRESS INPUT
CH0~7 ; ANALOG INPUT
CODE ; CODE SELECT (2'S COMPLEMENT/ BINARY) INPUT
CS ; CHIP SELECT INPUT
DB0~7 ; DATA BUS INPUT/OUTPUT
DEV0, DEV1 ; CLOCK RATE SELECT INPUT
EOC ; CONVERSION ENDING SIGNAL OUTPUT
MC ; MODE SELECT INPUT
RD ; READ SIGNAL INPUT
SCKI ; SERIAL CLOCK INPUT
SCKO ; SERIAL CLOCK OUTPUT
SHIFT ; SHIFT SELECT (LSB FIRST/ MSB FIRST)
SI ; SERIAL INPUT
SO ; SERIAL OUTPUT
SOEN ; SERIAL OUTPUT ENABLE OUTPUT
STB ; ADDRESS WRITE STROBE SIGNAL INPUT
WR ; WRITE SIGNAL INPUT

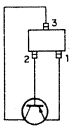


uPD8749HC (NEC)
uPD8749HD (NEC)
N-MOS 8-BIT MICROPROCESSOR
— TOP VIEW —

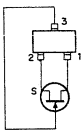


ALE ; ADDRESS LATCH ENABLE
PSEN ; PROGRAM STORE ENABLE
SS ; SINGLE STEP
EA ; EXTERNAL ACCESS
PROG ; PROGRAM PULSE
RD ; READ
WR ; WRITE

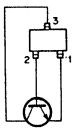
TRANSISTOR



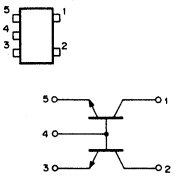
2SA1162G
2SA1462
2SA812



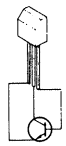
2SK508
2SK94
2SK94-X3



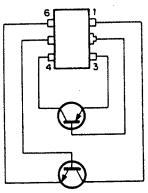
2SC1623
2SC2757
UN2224



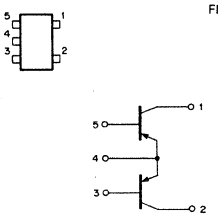
FMW2-T-98



2SD774

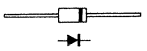


IMZ1T108

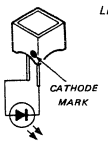


FMS2-T-98

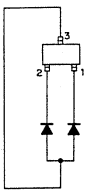
DIODE



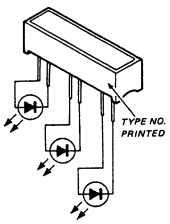
1S1555S



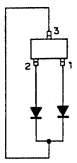
LD-101MG ; GREEN



1S2835-T1

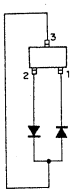


LD-701MG ; GREEN

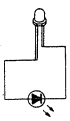


1S2837

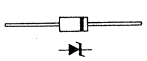
RD ? ?M



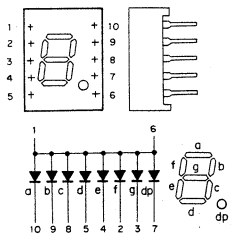
1SS123
1SS226



TLY123 ; YELLOW



1SZ ? ?
RD ? ?ESB ?



GL-8D03D ; RED

SECTION 7
SCHEMATIC DIAGRAMS

CIRCUIT FUNCTION OF THE SCHEMATIC DIAGRAMS

The circuit information is provided below.

	CIRCUIT BOARD	CIRCUIT FUNCTION	PAGE
PROCESS	CN-330	CONNECTOR BOARD	7-151
	CN-332	CONNECTOR BOARD	7-143
	CN-333/333P	SYNC SEPARATOR	7-139
	CN-336	CONNECTOR BOARD	7-147
	EF-20/20P	Y (COMPOSITE) SIGNAL PROCESSOR	7-105
	EF-20C/20CP	B-Y (R-Y) SIGNAL PROCESSOR	7-119
	EN-80/80P	ENCODER	7-135
	HN-105	MOTHER BOARD	7-157
	HN-138	MOTHER BOARD	7-170
	IV-25/25P	MODE SET FOR INPUT VIDEO SIGNAL	7-131
	LE-55	LED	7-179
	SD-19/19P	SIGNAL GENERATOR FOR SIGNAL PROCESSOR	7-47
	SD-20/20P	SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR	7-75
	SOPS-1007	SW REG	7-175
	SY-138/138P	SYSTEM CONTROL	7-29
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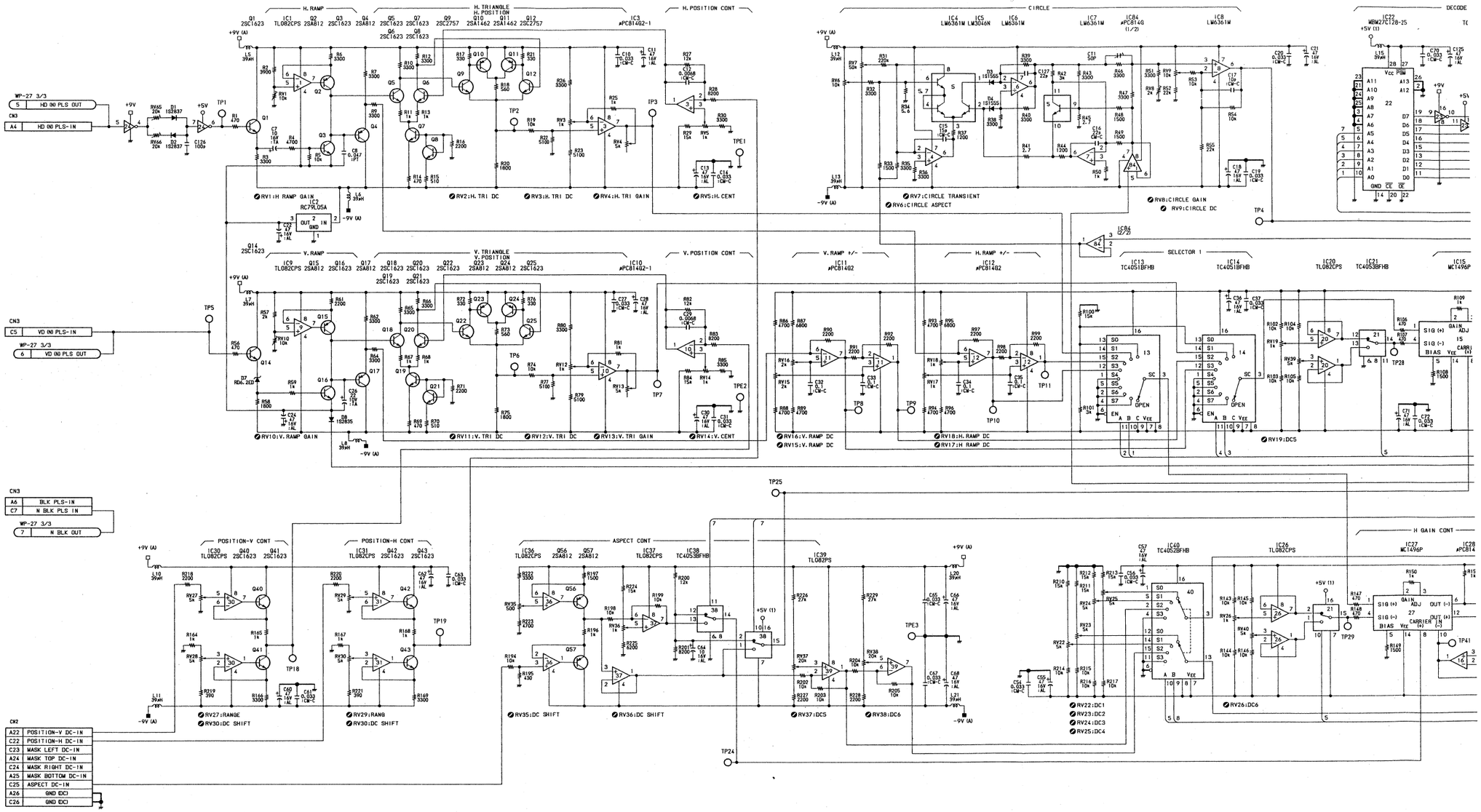
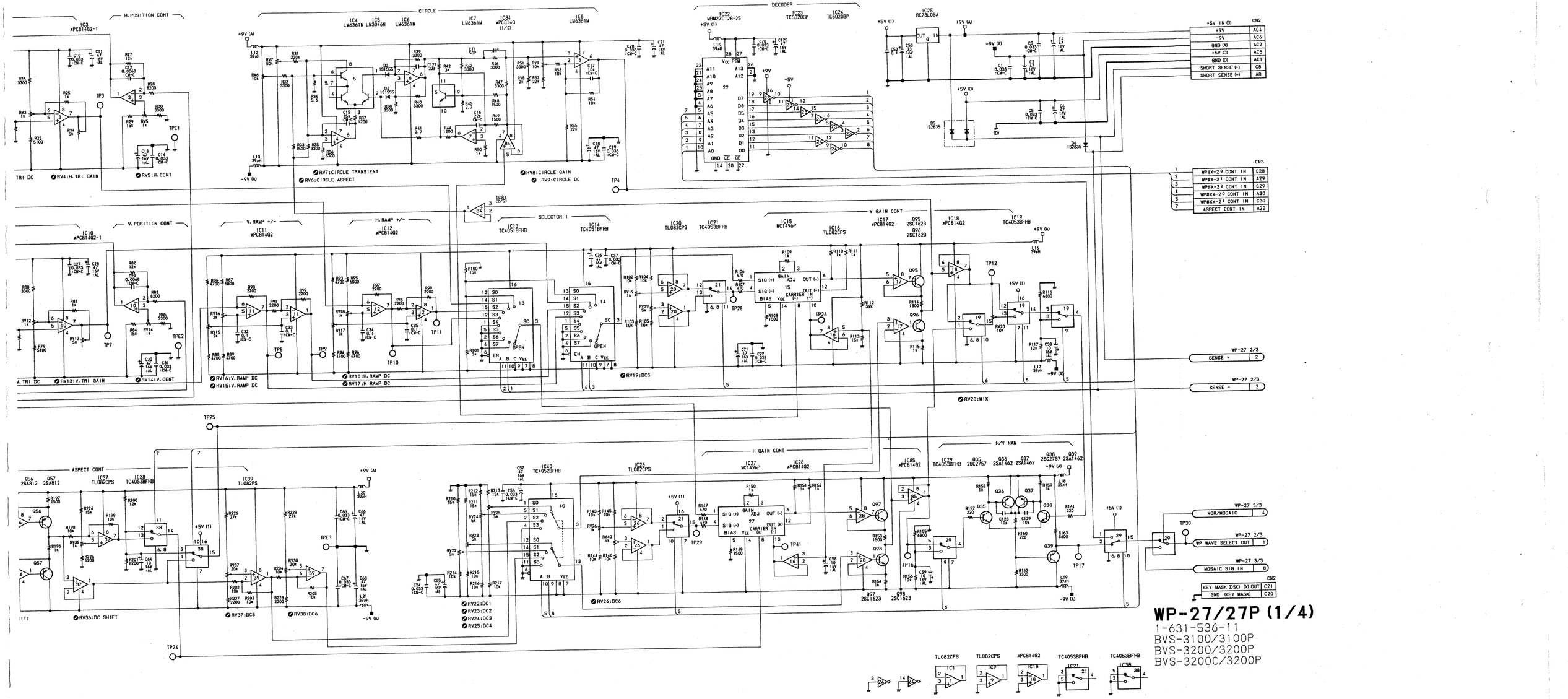
	WP-27/27P	WIPE SIGNAL GENERATOR	7-4
CONSOLE	LP-47	LED	7-206
	LP-48	LED	7-206
	LP-49	LED	7-206
	KY-155	SWITCH BOARD	7-185
	KY-157	SUB SWITCH BOARD	7-199
	KY-158	SUB SWITCH BOARD	7-203
	EX-201	EXTENTION BOARD	
	EX-236	EXTENTION BOARD	

WP-27/27P (1/4) WIPE SIGNAL GENERATOR



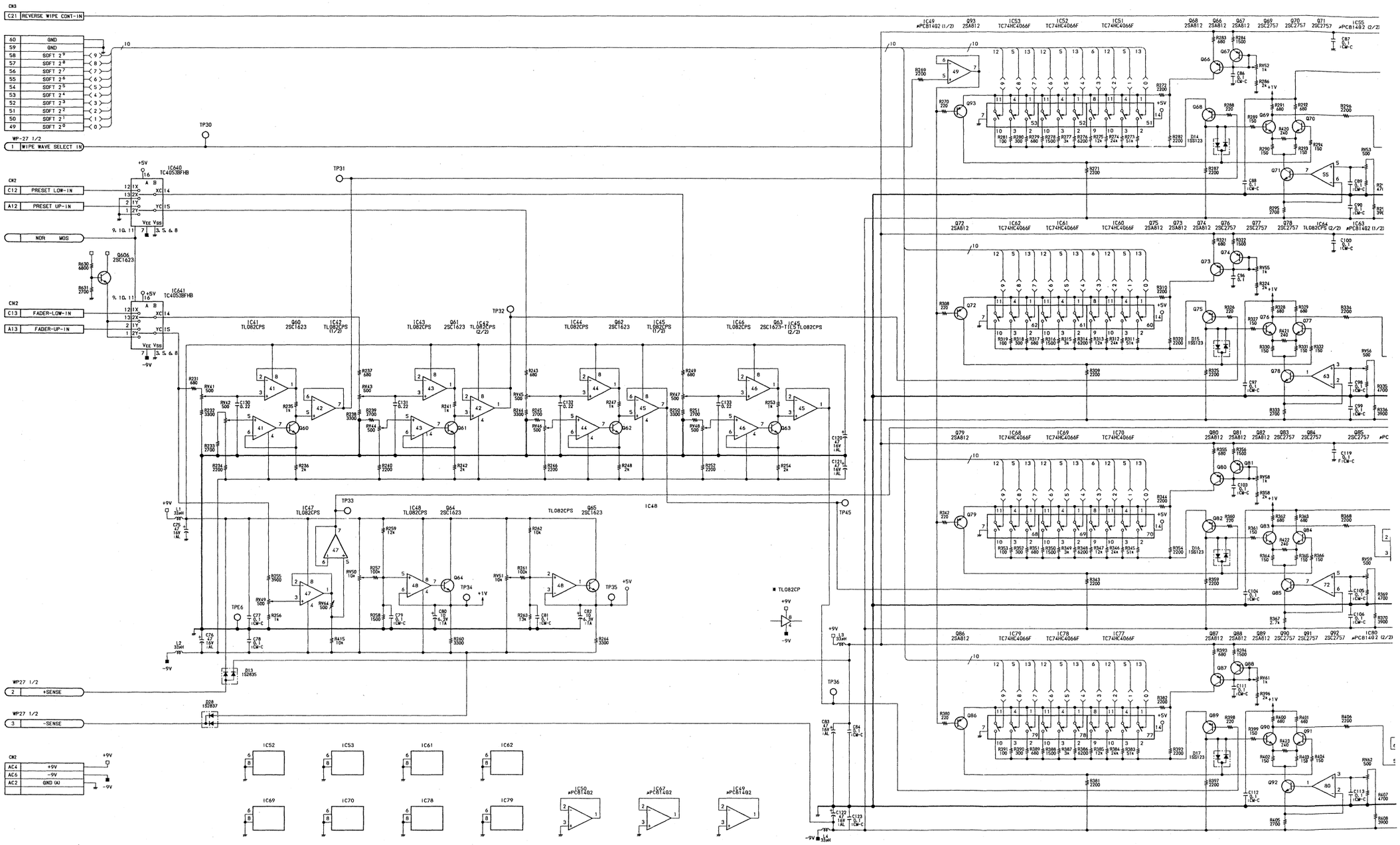


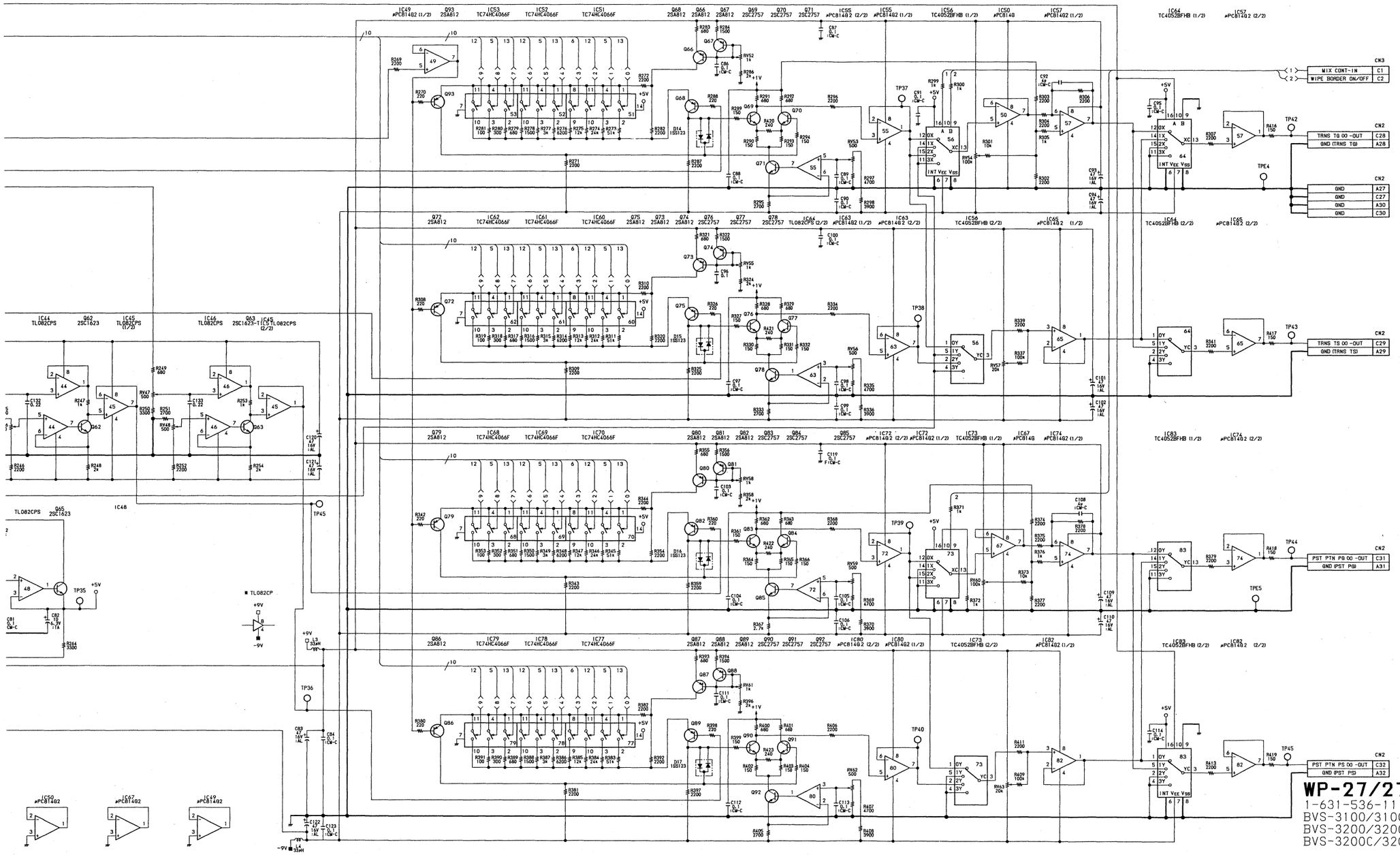
WP-27/27P (1/4)
1-631-536-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200P

7-5 7-6

D E F G H I J

WP-27/27P (2/4) WIPE SIGNAL GENERATOR





WP-27/27P (2/4)

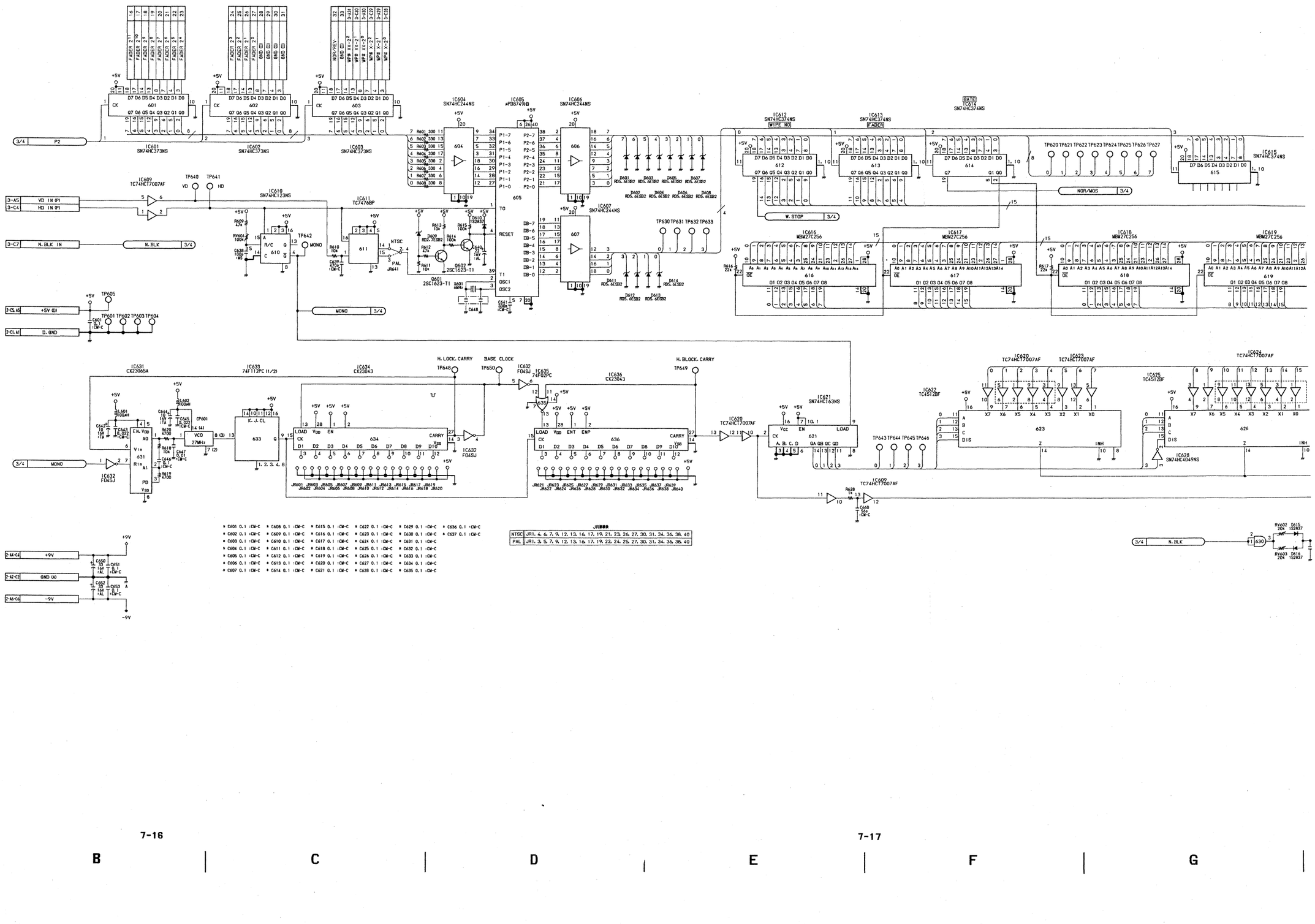
1-631-536-11

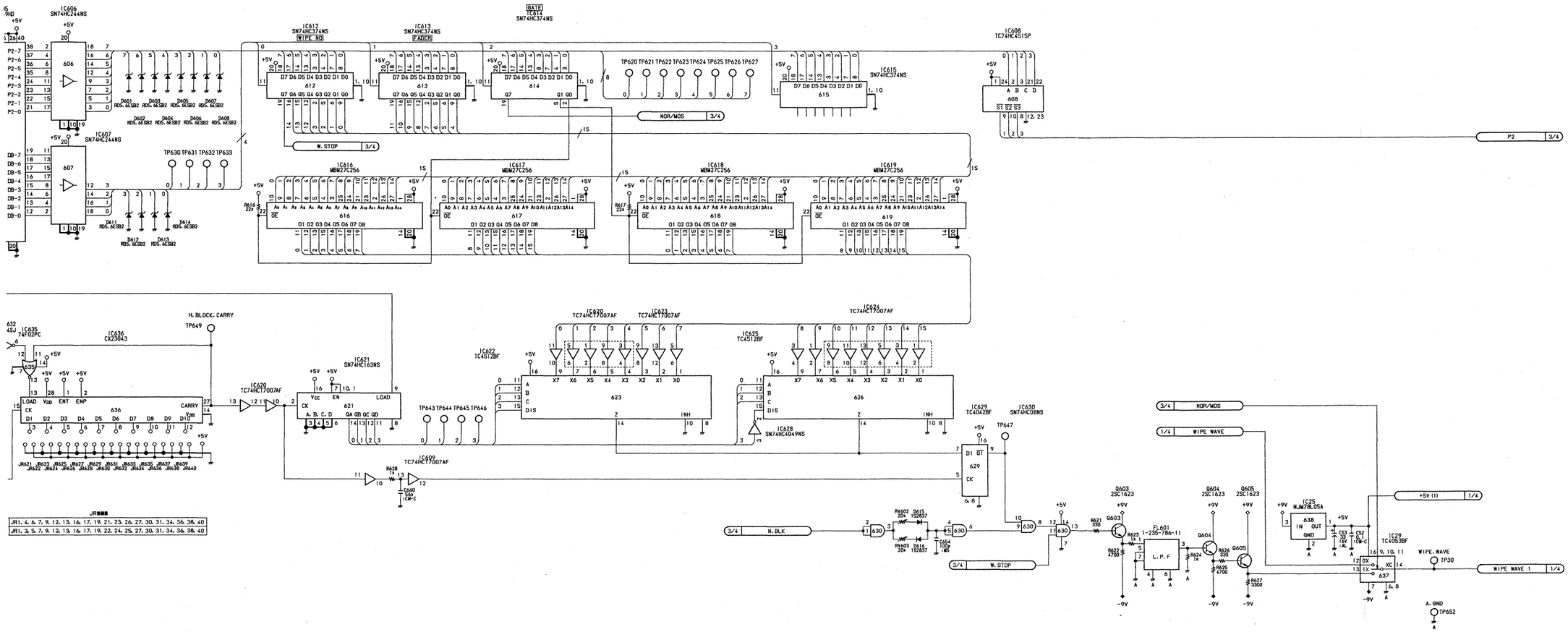
BVS-3100/3100P

BVS-3200/3200P

BVS-3200C/3200CP

WP-27/27P (3/4) WIPE SIGNAL GENERATOR

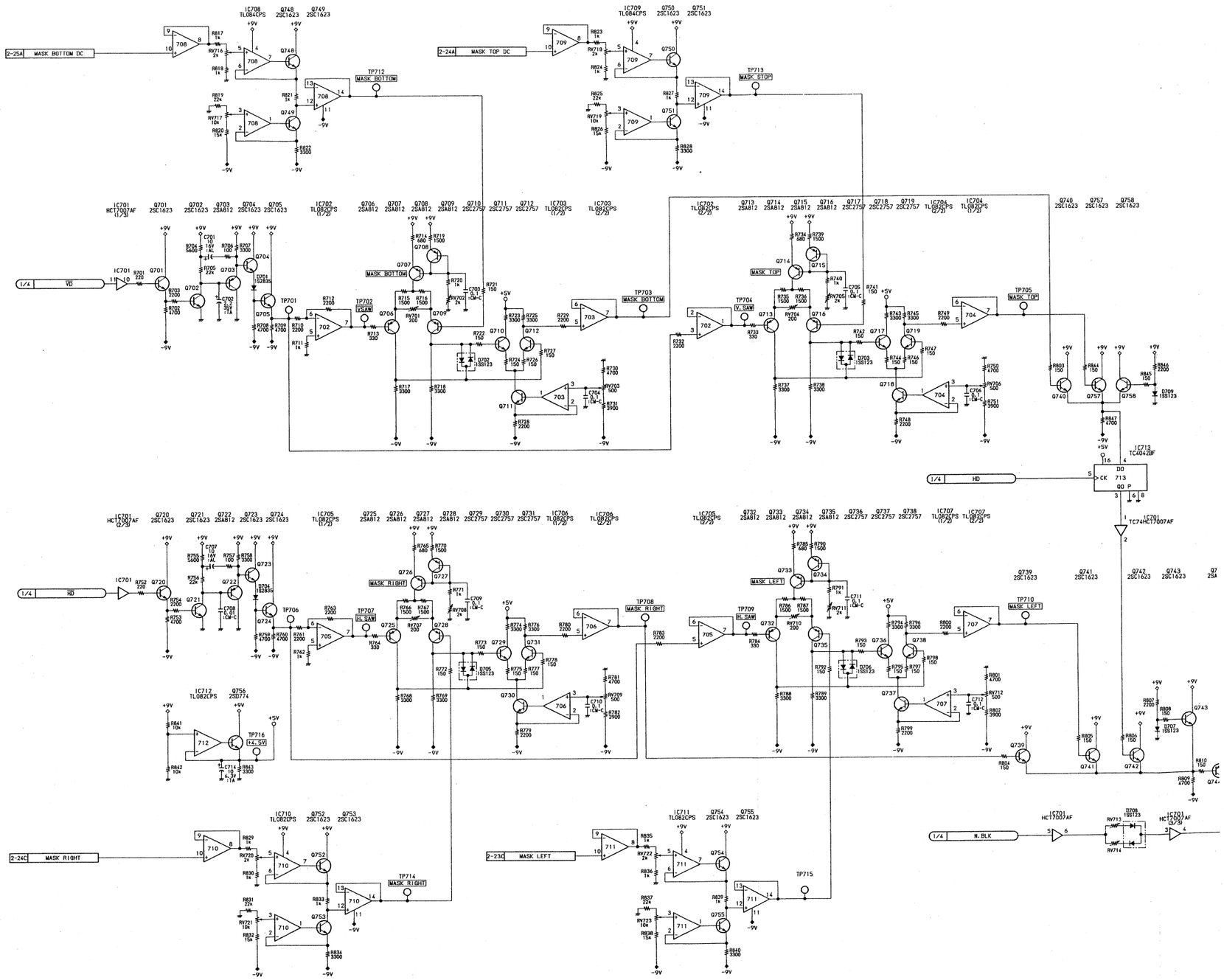


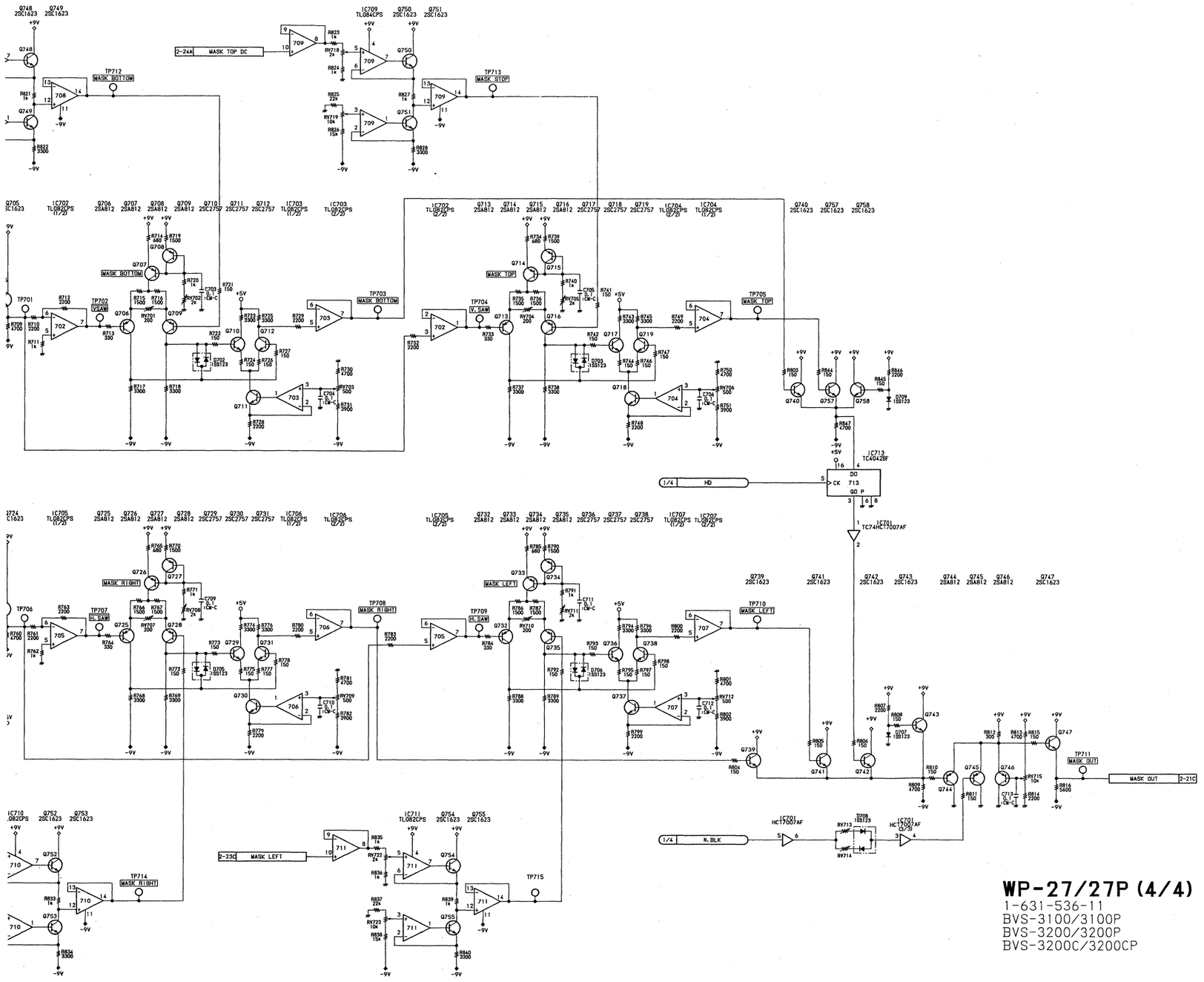


WP-27/27P (3/4)

1-631-536-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

WP-27/27P (4/4) WIPE SIGNAL GENERATOR

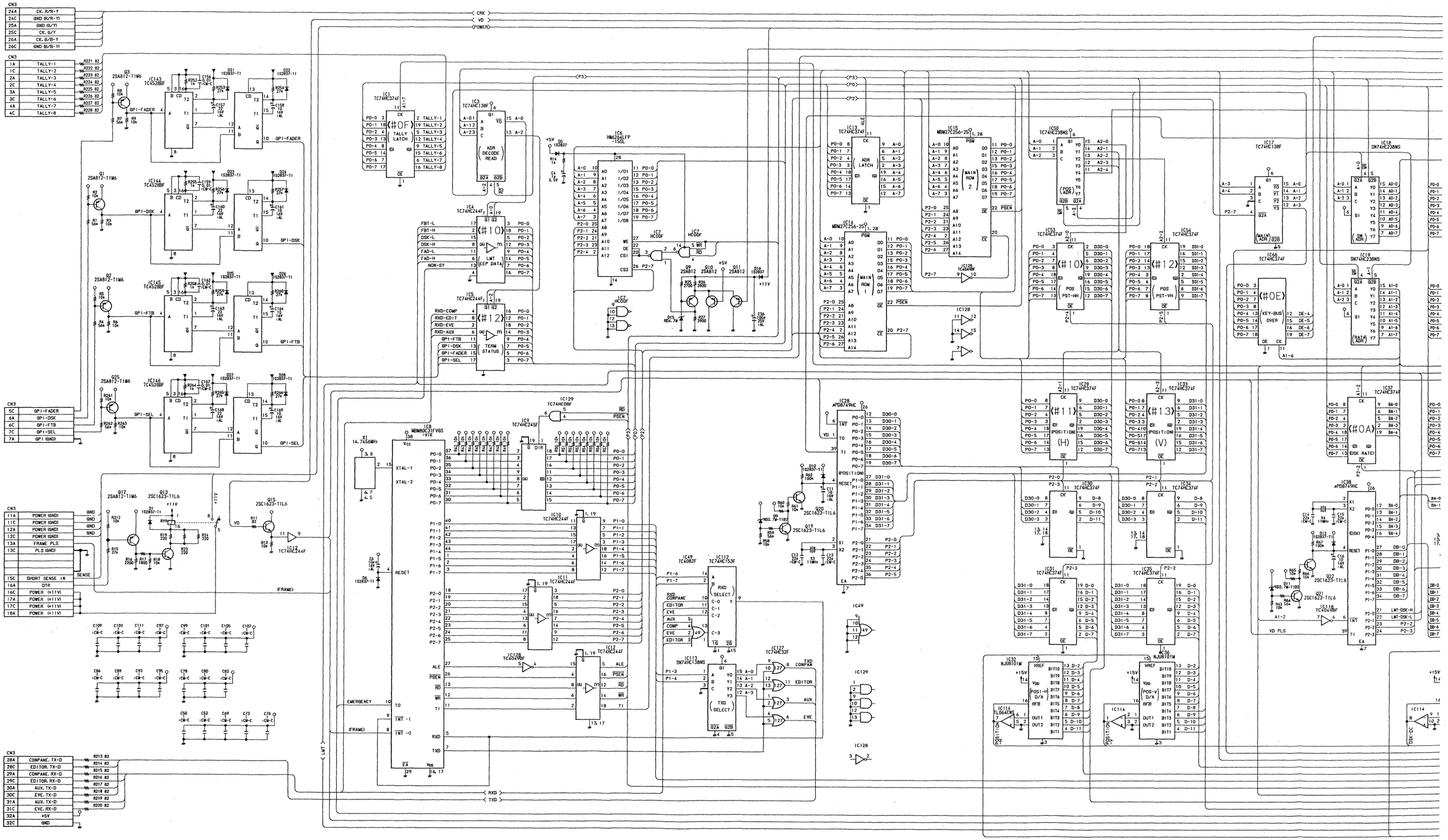


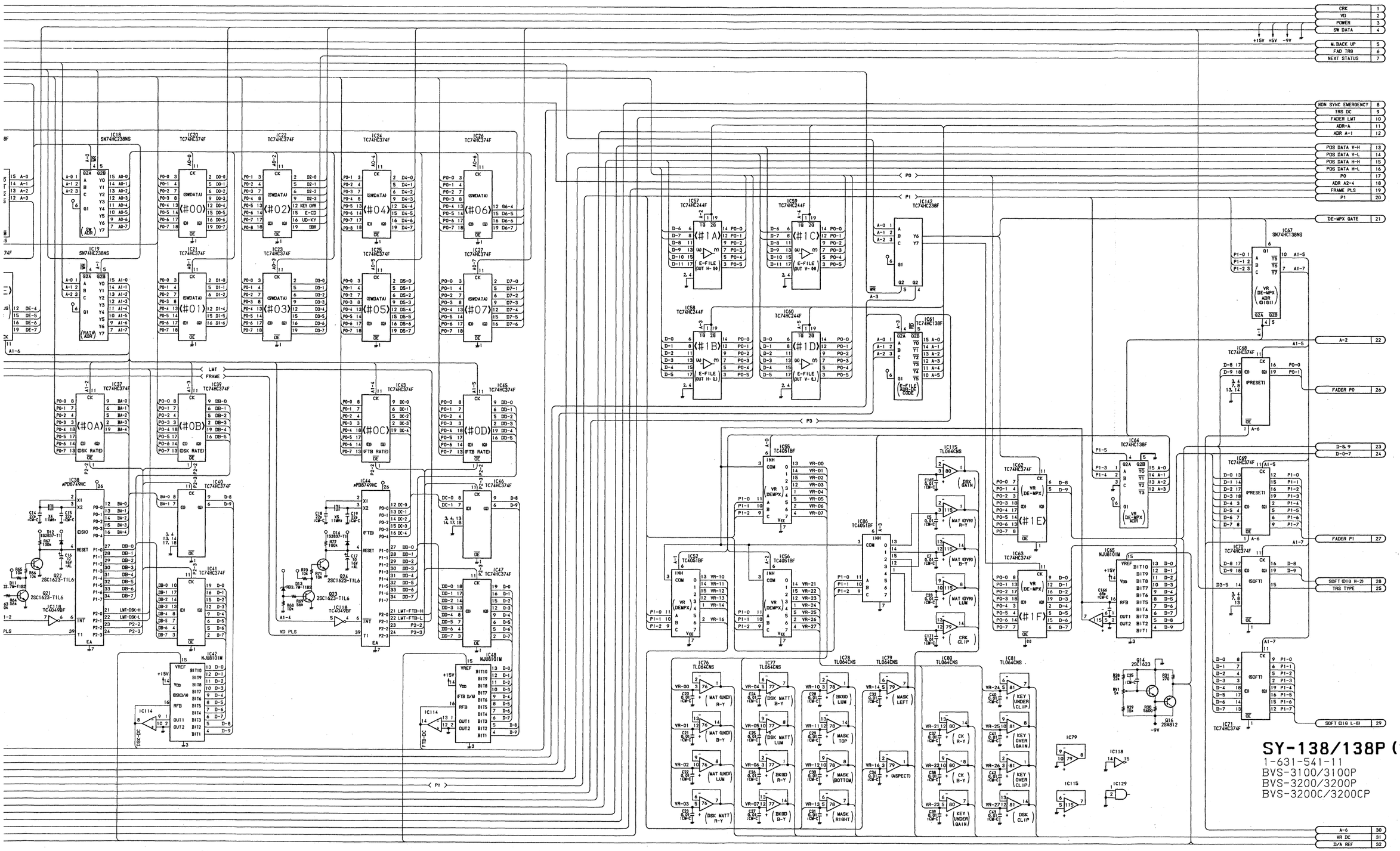


WP-27/27P (4/4)

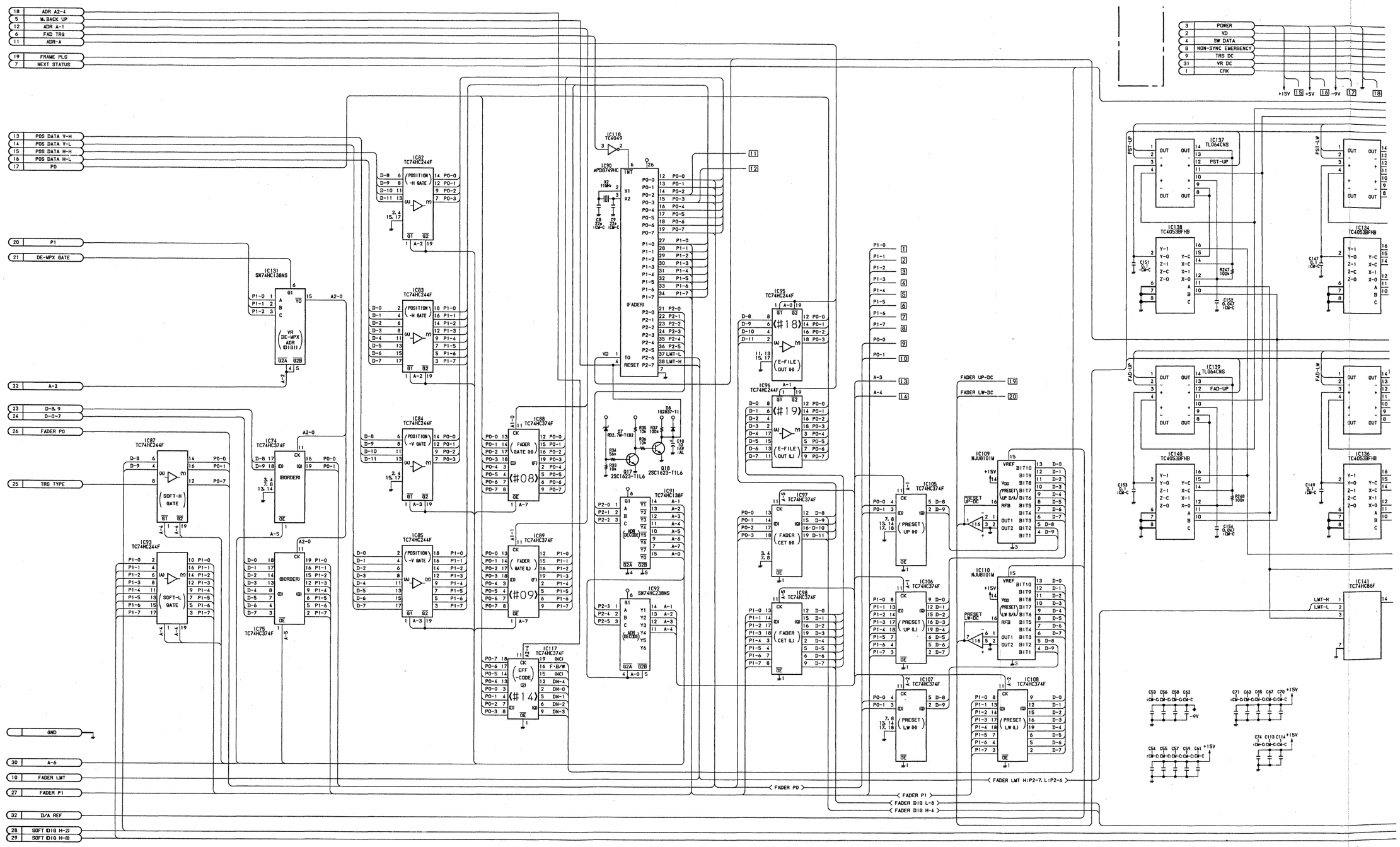
1-631-536-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

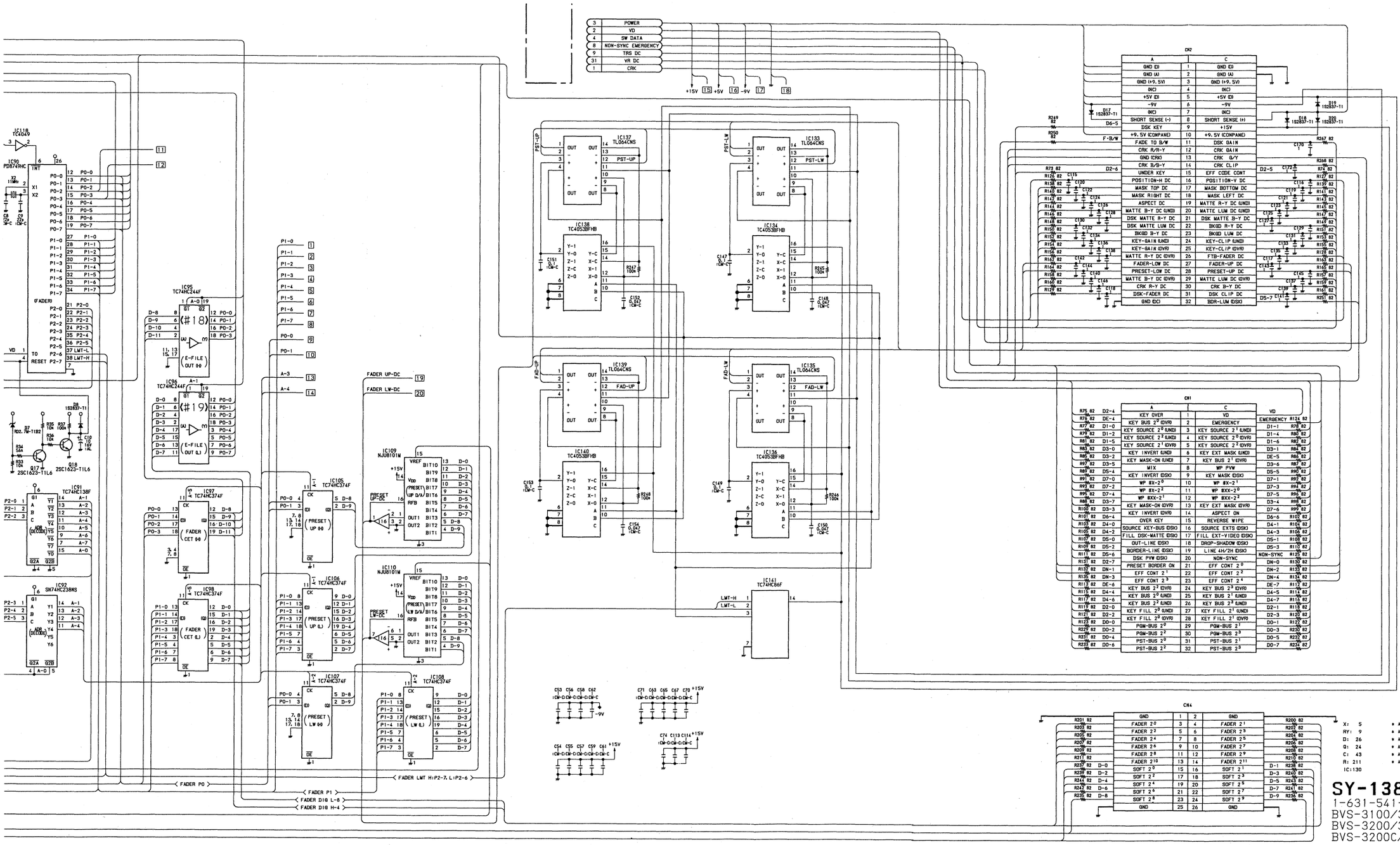
SY-138/138P (1/2) SYSTEM CONTROL



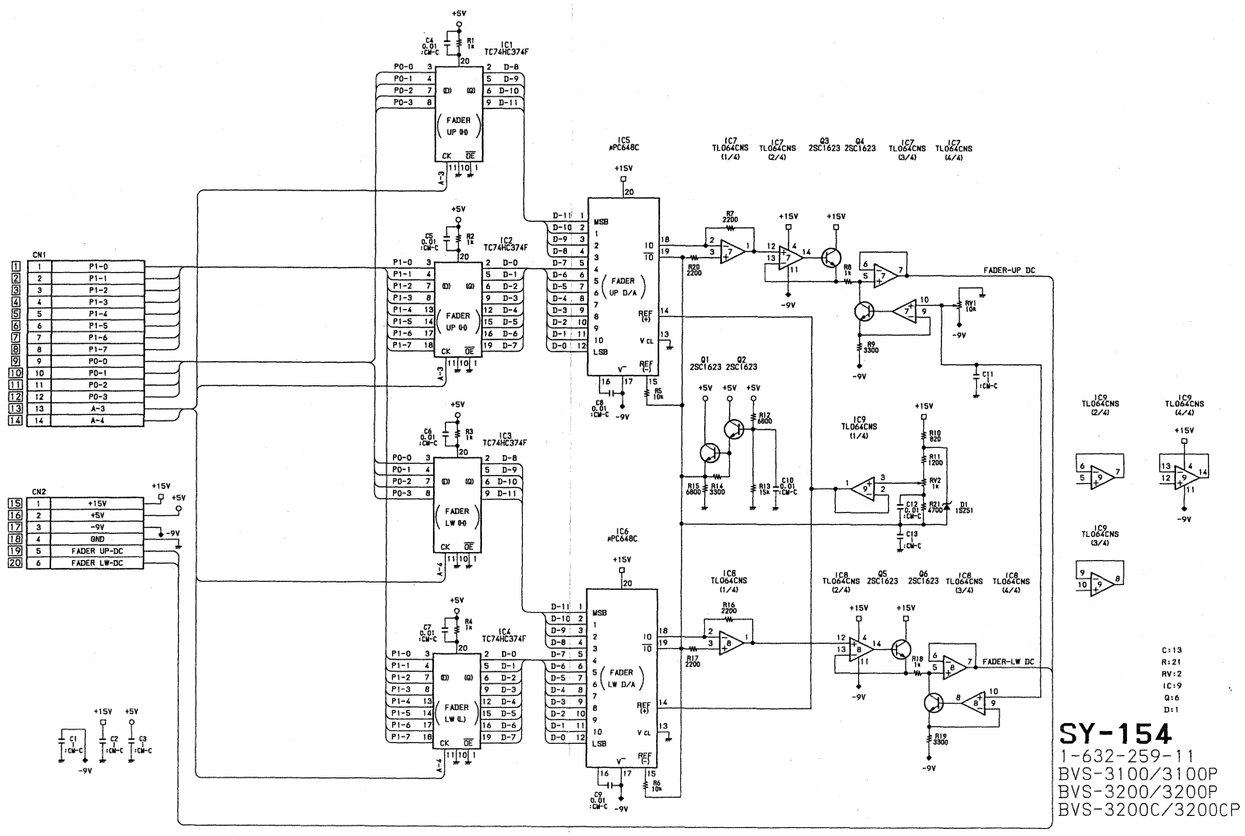

CRK 1
VD 2
POWER 3
SW DATA 4
+15V +5V -9V
M. BACK UP 5
FAD TRG 6
NEXT STATUS 7
NON SYNC EMERGENCY 8
TRS DC 9
FADER LMT 10
ADR-A 11
ADR A-1 12
POS DATA V-H 13
POS DATA V-L 14
POS DATA H-H 15
POS DATA H-L 16
PO 17
ADR A2-4 18
FRAME PLS 19
P1 20
DE-MPX GATE 21
A-2 22
A1-5 23
D-8, 9 24
D-0-7 25
FADER PO 26
FADER P1 27
SOFT ID10 H-2 28
TRS TYPE 25
SOFT ID10 L-8 29
A-6 30
VR DC 31
D/A REF 32
IC18 SN74HC238NS
IC19 SN74HC238NS
IC20 TC74HC374F
IC21 TC74HC374F
IC22 TC74HC374F
IC23 TC74HC374F
IC24 TC74HC374F
IC25 TC74HC374F
IC26 TC74HC374F
IC27 TC74HC374F
IC37 TC74HC374F
IC39 TC74HC374F
IC43 TC74HC374F
IC45 TC74HC374F
IC38 μPD8474HC
IC40 TC74HC374F
IC44 μPD8474HC
IC46 TC74HC374F
IC41 TC74HC374F
IC47 TC74HC374F
IC42 NJU8101M
IC48 NJU8101M
IC18 TC4049BF
IC114
IC57 TC74HC244F
IC58 TC74HC244F
IC59 TC74HC244F
IC60 TC74HC244F
IC142 TC74HC238F
IC61 TC74HC138F
IC67 SN74HC138NS
IC68 TC74HC374F
IC64 TC74HC138F
IC69 TC74HC374F
IC70 TC74HC374F
IC71 TC74HC374F
IC62 TC74HC374F
IC63 TC74HC374F
IC65 NJU8101M
IC55 TC4051BF
IC56 TC4051BF
IC52 TC4051BF
IC86 TC4051BF
IC115 TL064CNS
IC76 TL064CNS
IC77 TL064CNS
IC78 TL064CNS
IC79 TL064CNS
IC80 TL064CNS
IC81 TL064CNS
IC79
IC118
IC115
IC129
Q14 2SC1623
G16 2SA812
-9V
(#00) (#01) (#02) (#03) (#04) (#05) (#06) (#07)
(#0A) (#0B) (#0C) (#0D)
(#1A) (#1B) (#1C) (#1D) (#1E) (#1F)
SY-138/138P (1/2)
1-631-541-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

SY-138/138P (2/2) SYSTEM CONTROL

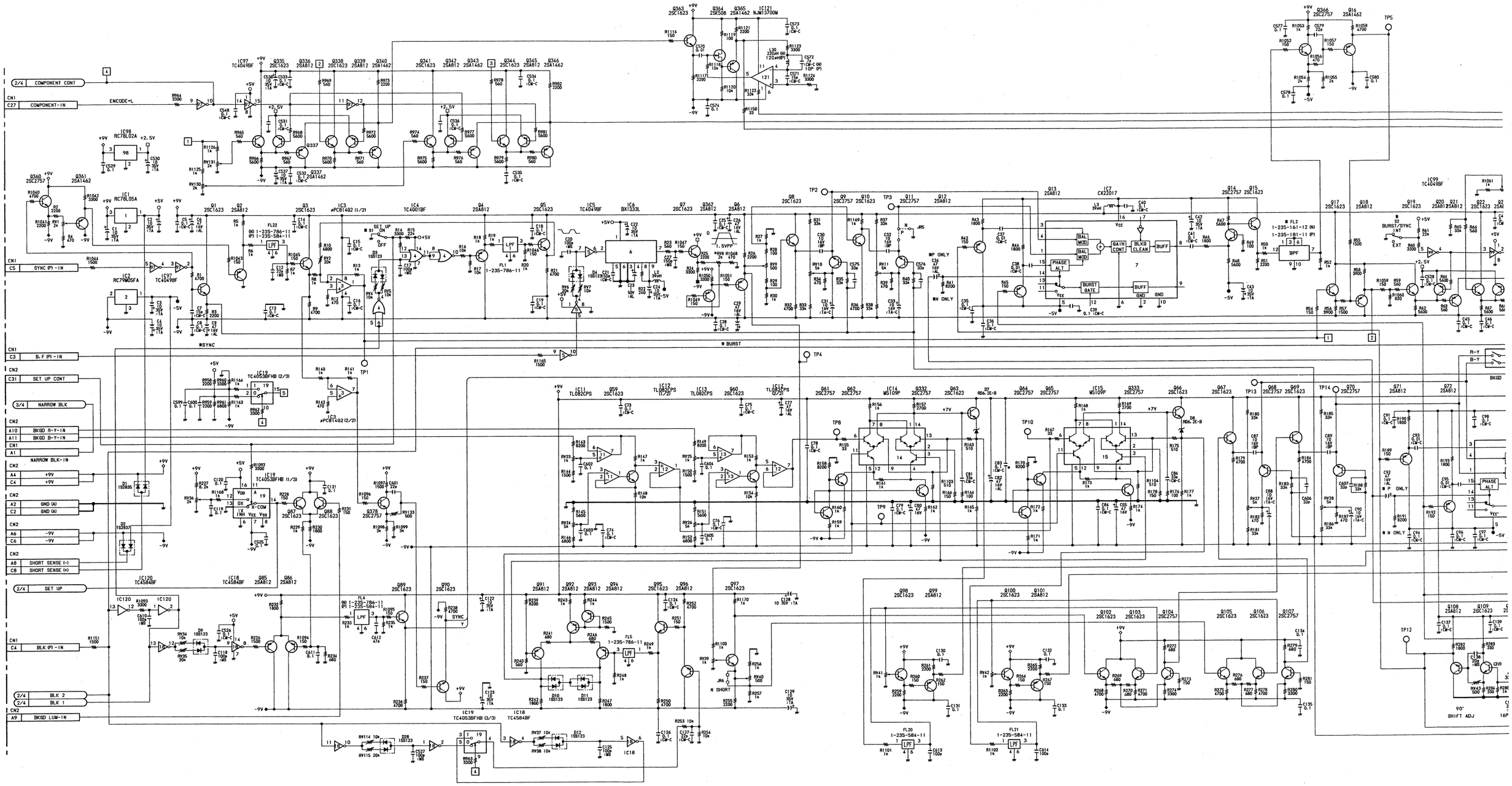


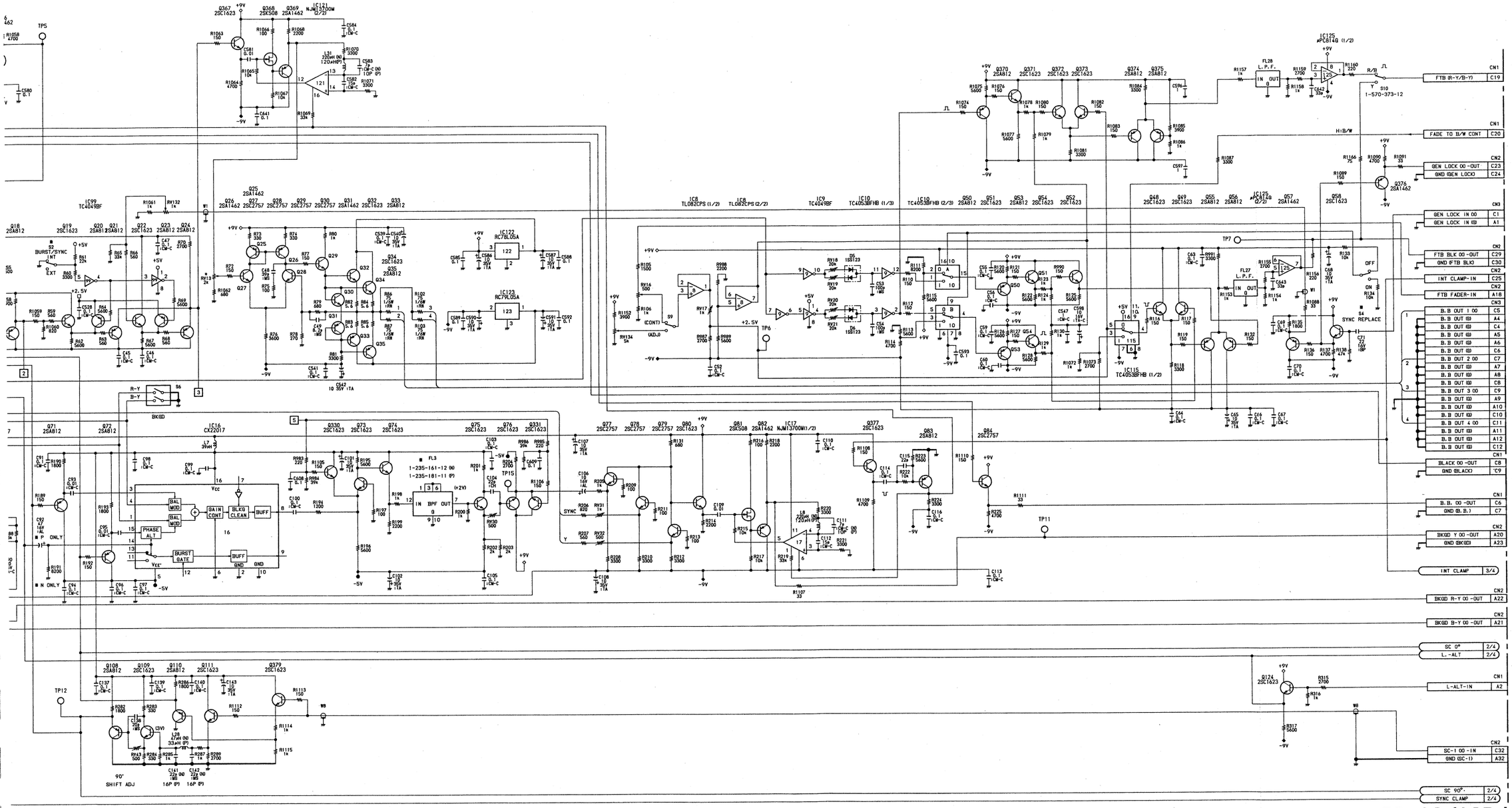

POWER
VD
SW DATA
NON-SYNC EMERGENCY
TRS DC
VR DC
CRK
+15V +5V -9V
IC118 TC4049
IC90 PD8749HC
IC91 TC74HC138F
IC92 SN74HC238NS
IC95 TC74HC244F
IC96 TC74HC244F
IC97 TC74HC374F
IC98 TC74HC374F
IC105 TC74HC374F
IC106 TC74HC374F
IC107 TC74HC374F
IC108 TC74HC374F
IC109 NJU81011M
IC110 NJU81011M
IC137 TL064CNS
IC138 TC4053BFHB
IC139 TL064CNS
IC140 TC4053BFHB
IC133 TL064CNS
IC134 TC4053BFHB
IC135 TL064CNS
IC136 TC4053BFHB
IC141 TC74HC86F
IC130
CN2
CN1
CN4
FADER UP-DC
FADER LW-DC
FADER LMT H:P2-7, L:P2-6
FADER PO
FADER P1
FADER DIG L-8
FADER DIG H-4
SY-138/138P (2/2)
1-631-541-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

SY-154 12 BIT DA CHANGER



SD-19/19P (1/4) SIGNAL GENERATOR FOR SIGNAL PROCESSOR

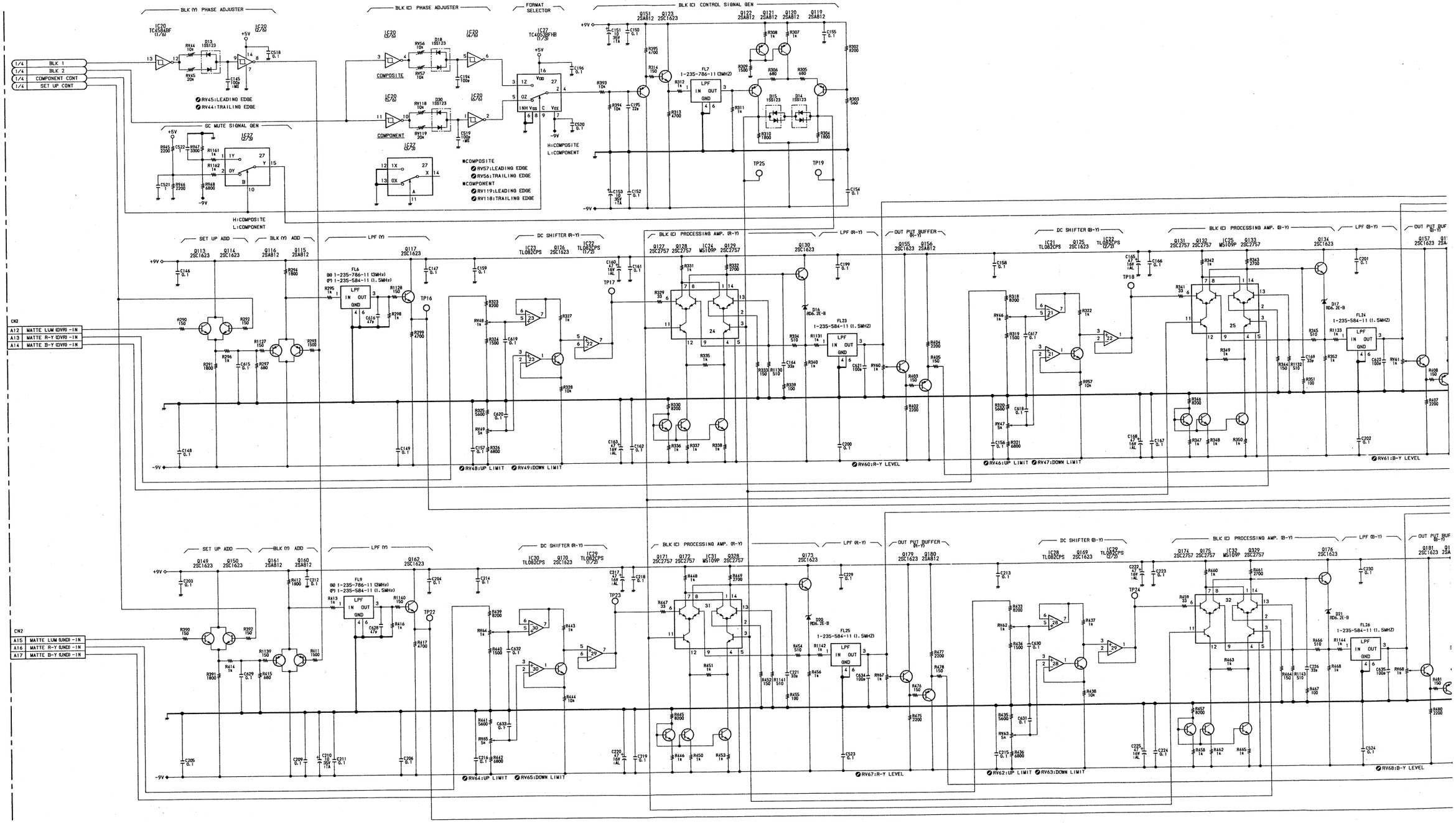


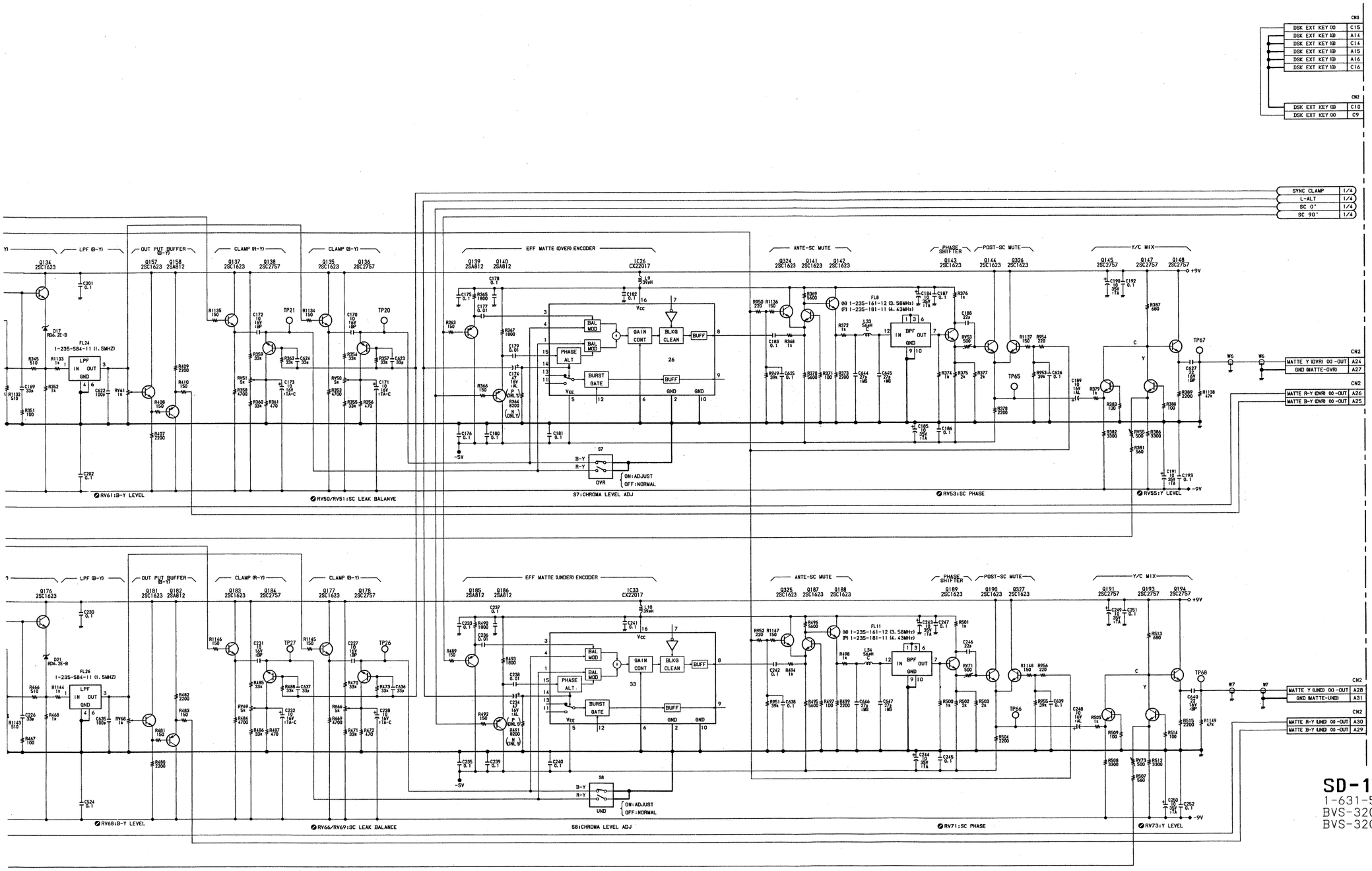


SD-19/19P (1/4)

1-631-543-11
BVS-3200/3200P
BVS-3200C/3200CP

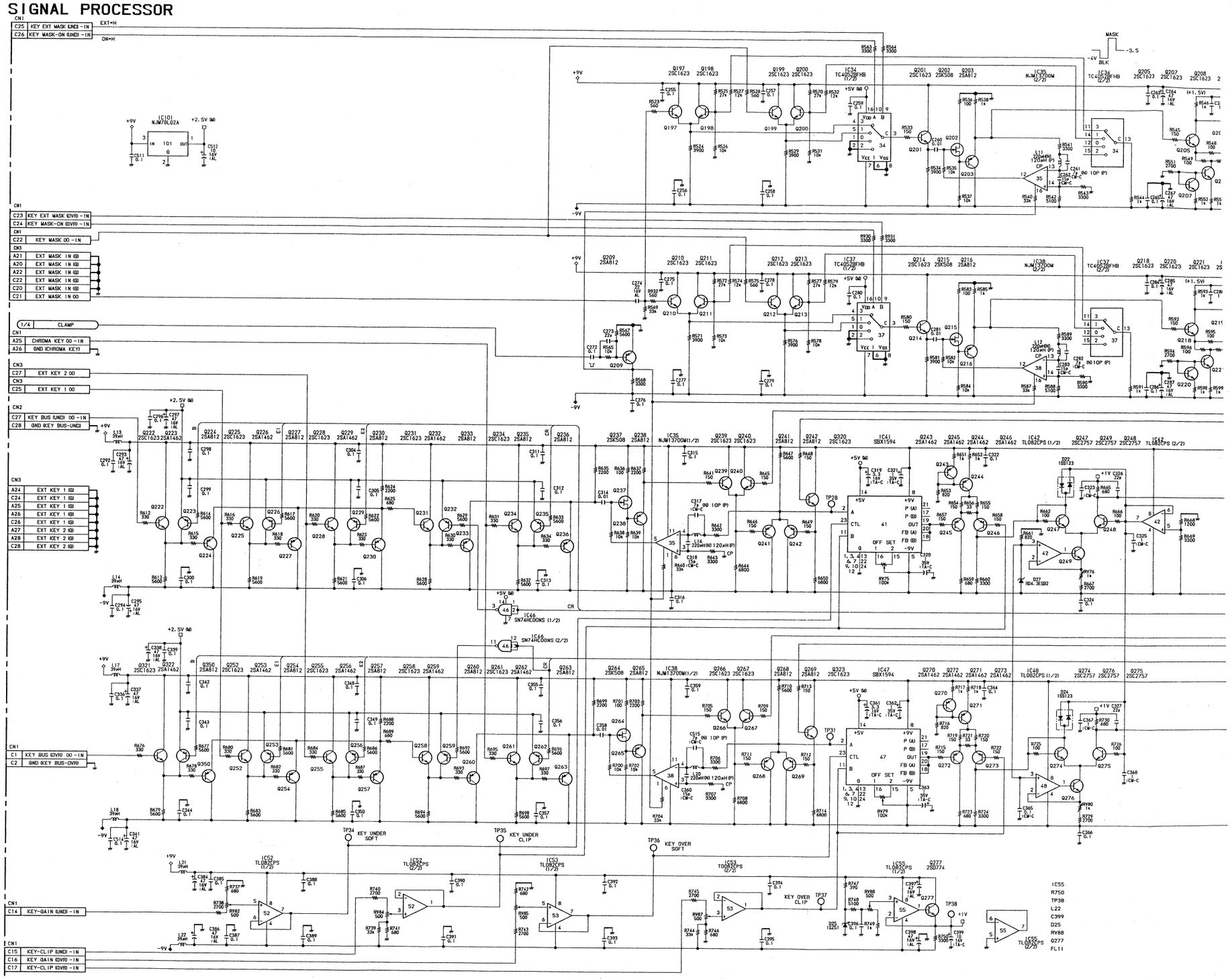
SD-19/19P (2/4) SIGNAL GENERATOR FOR SIGNAL PROCESSOR

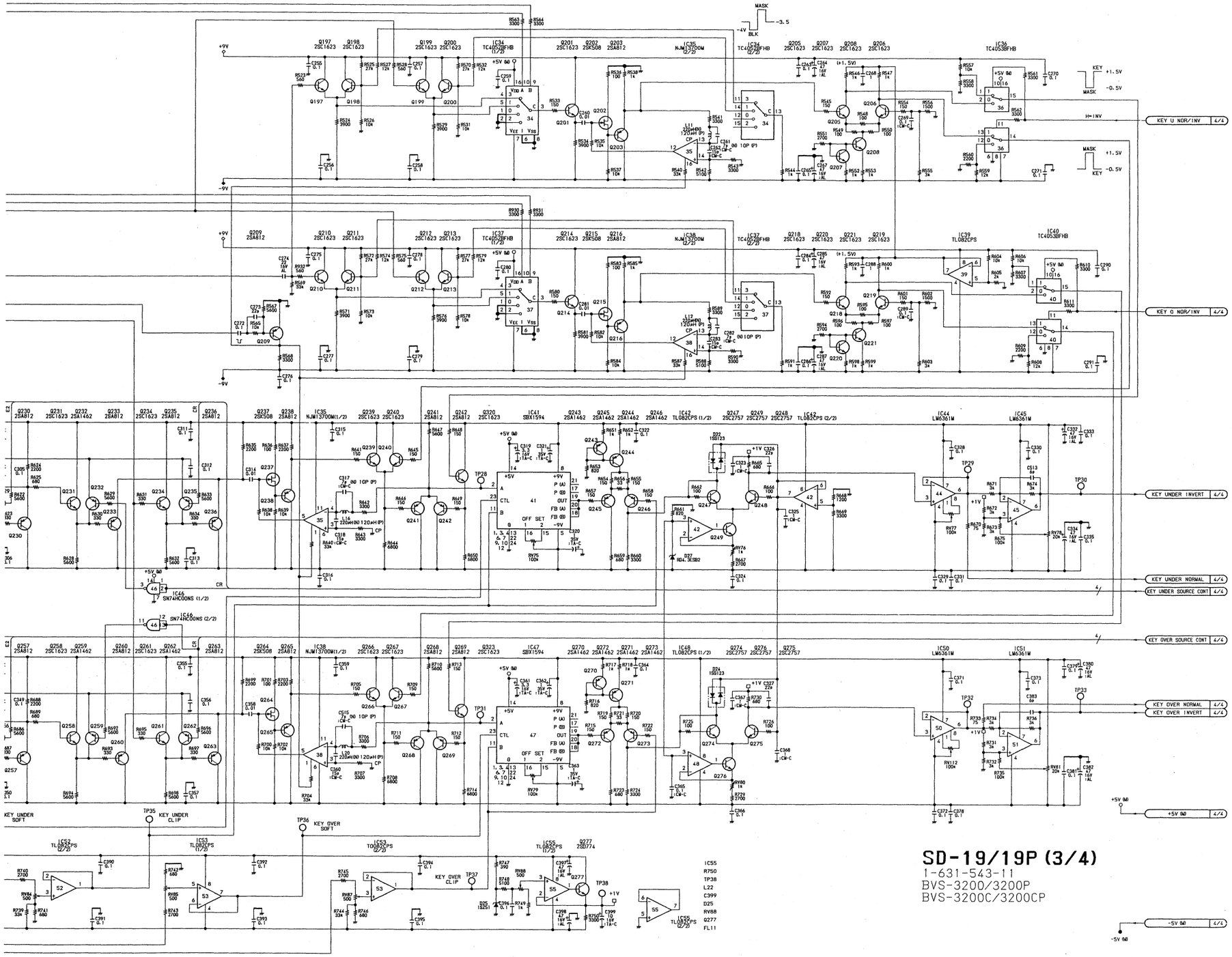




SD-19/19P (2/4)
1-631-543-11
BVS-3200/3200P
BVS-3200C/3200CP

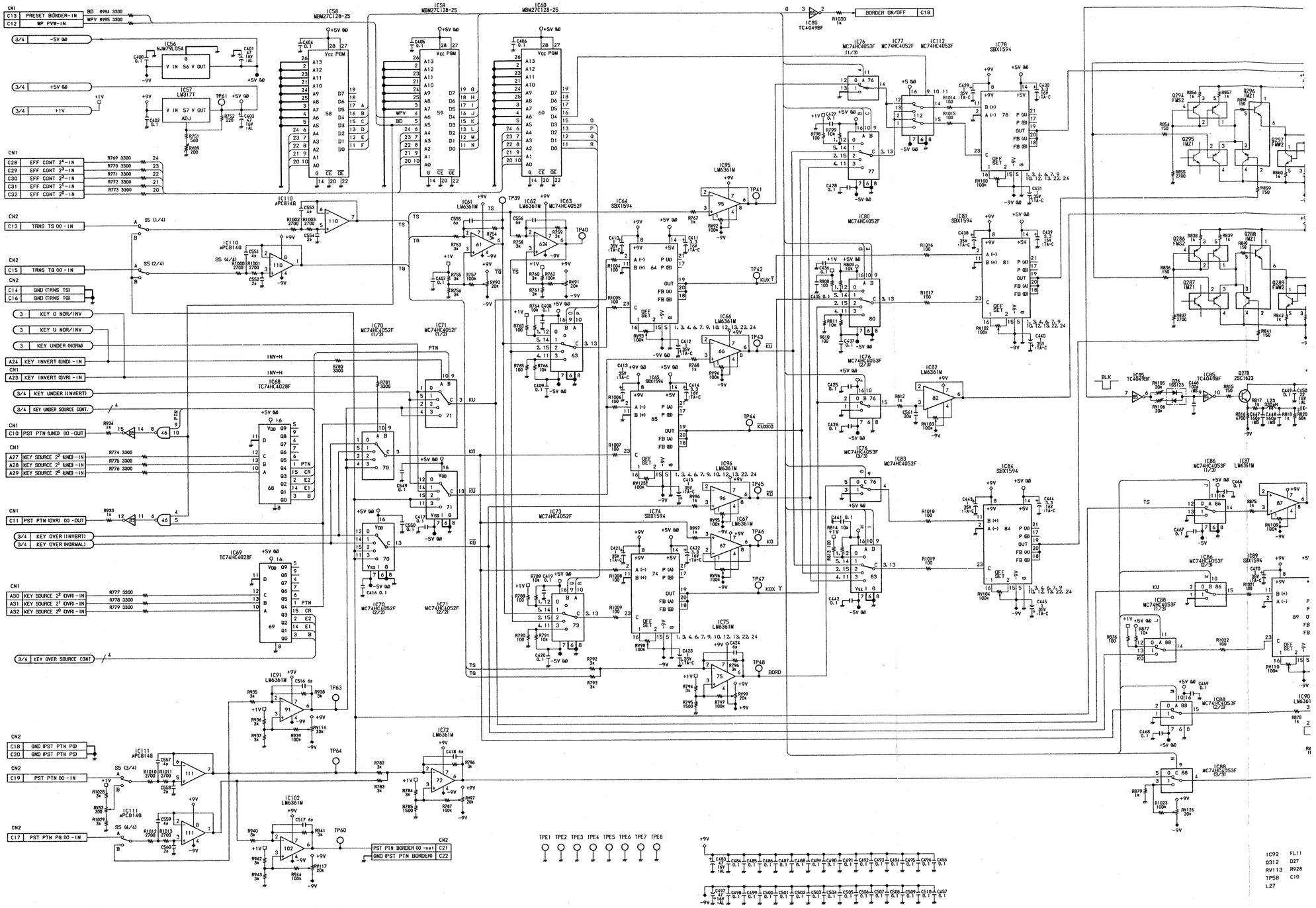
SD-19/19P (3/4) SIGNAL GENERATOR FOR SIGNAL PROCESSOR

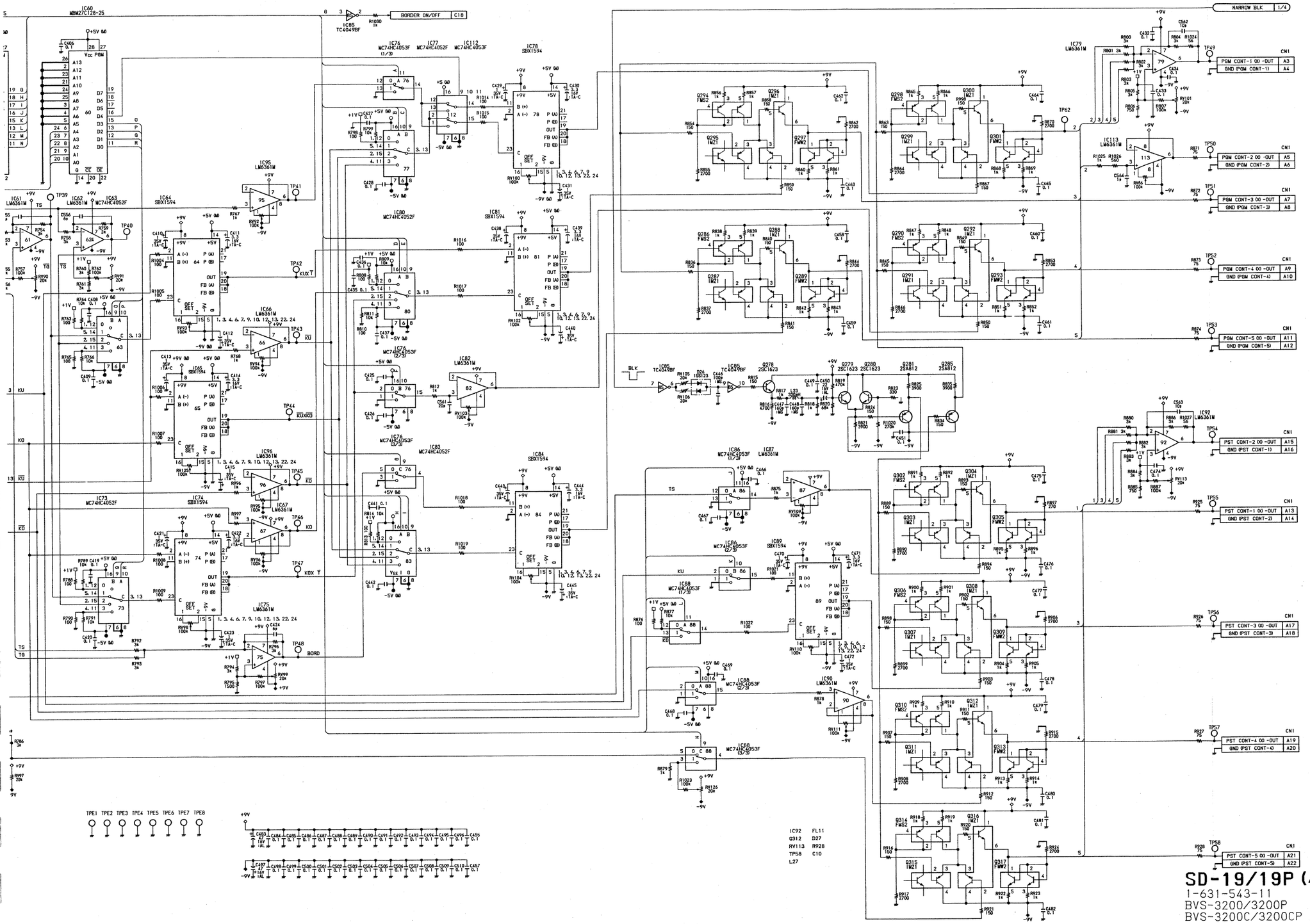




SD-19/19P (3/4)
1-631-543-11
BVS-3200/3200P
BVS-3200C/3200CP

SD-19/19P (4/4) SIGNAL GENERATOR FOR SIGNAL PROCESSOR

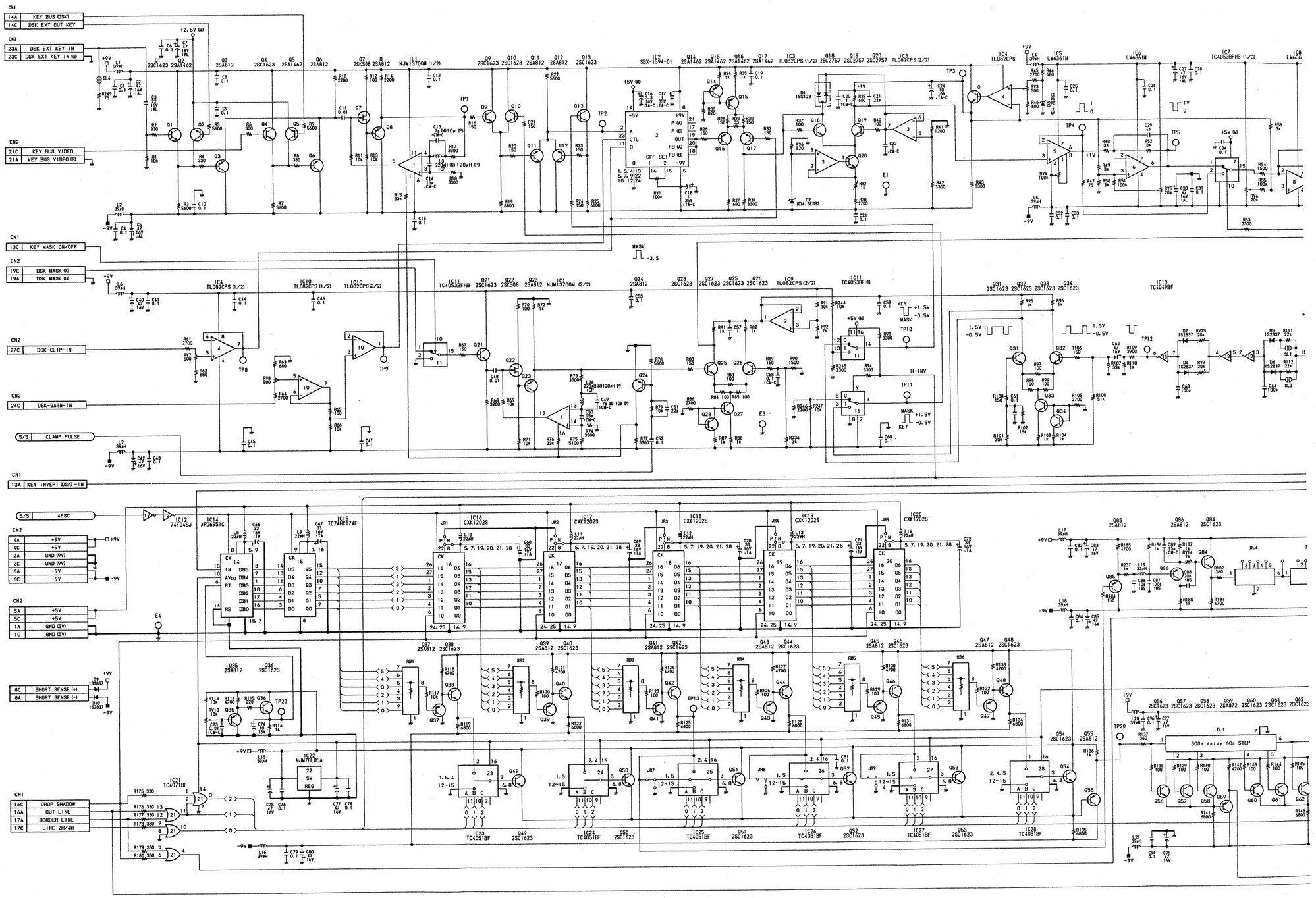


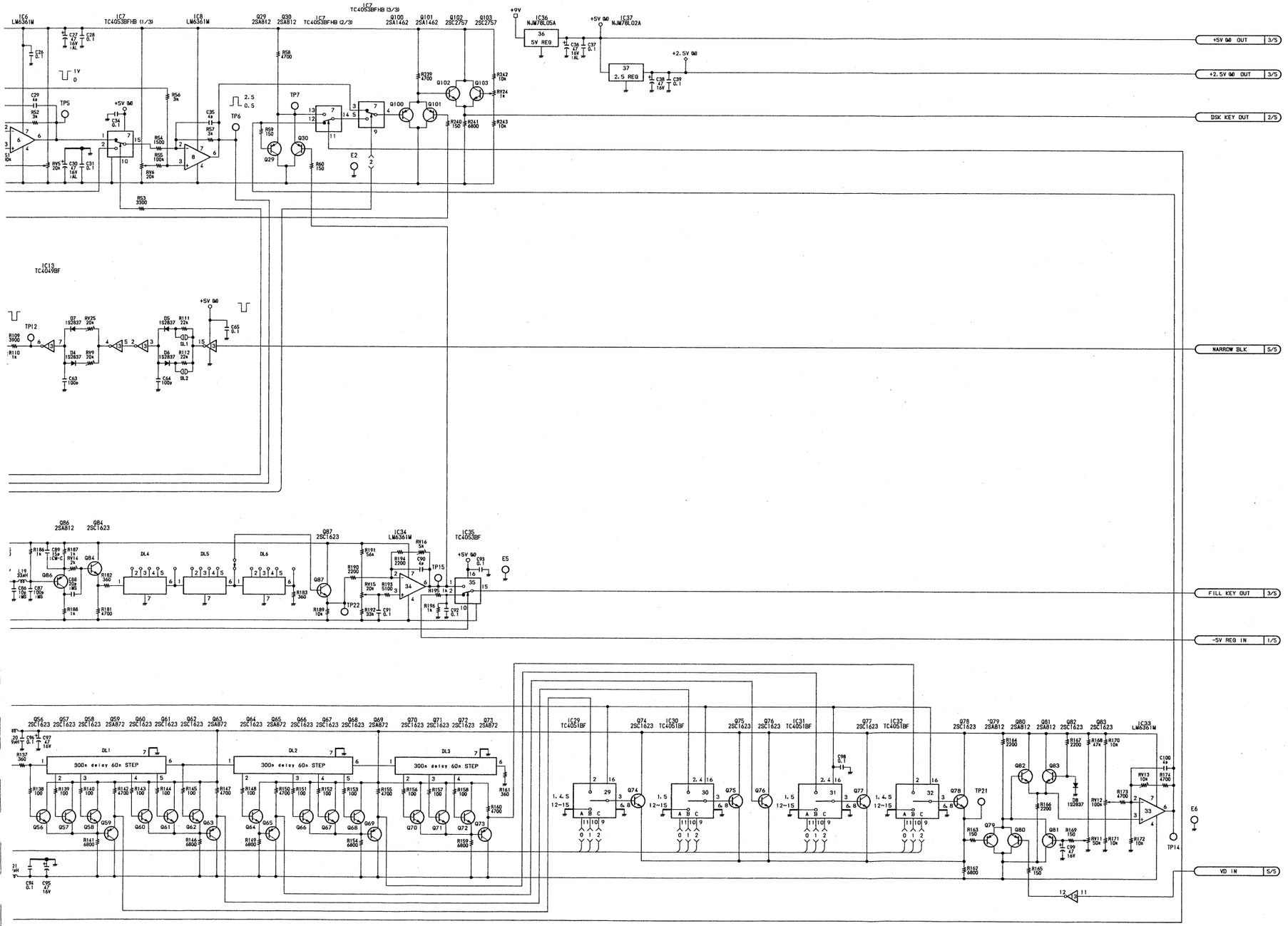


SD-19/19P (4/4)

1-631-543-11
BVS-3200/3200P
BVS-3200C/3200CP

SD-20/20P (1/5) SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR

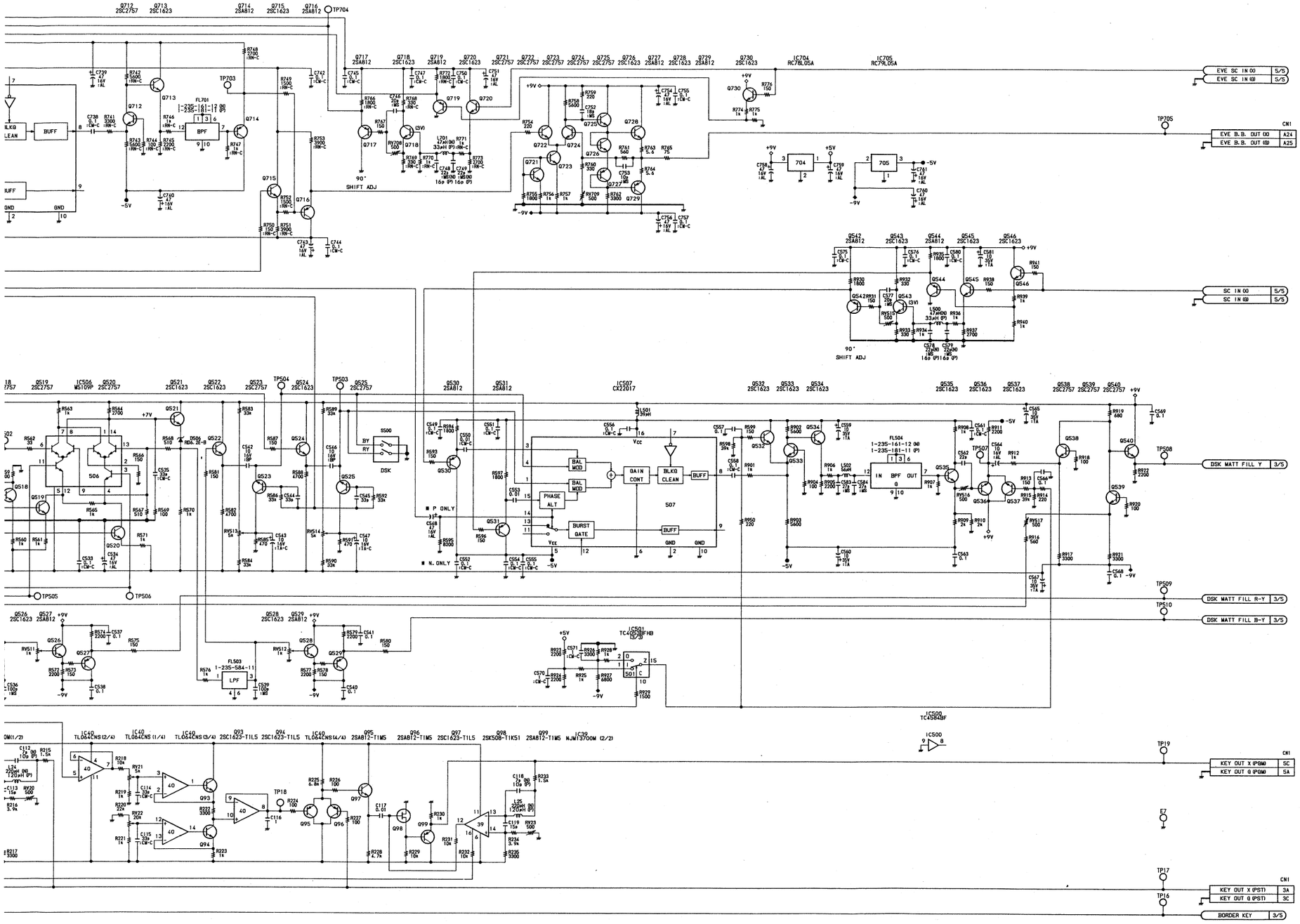




SD-20/20P (1/5)

1-631-542-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

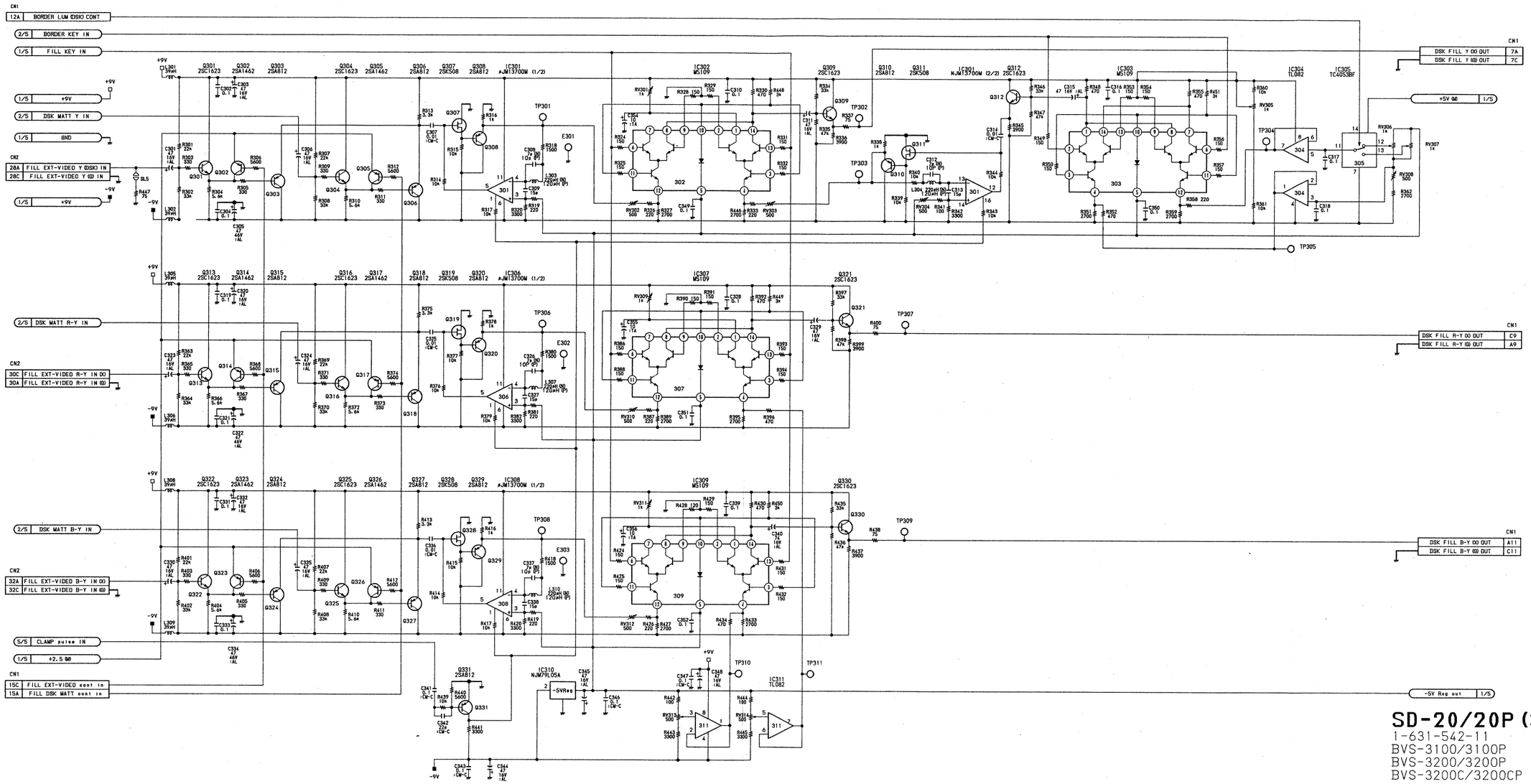
SD-20/20P (2/5) SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR



SD-20/20P (2/5)

1-631-542-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

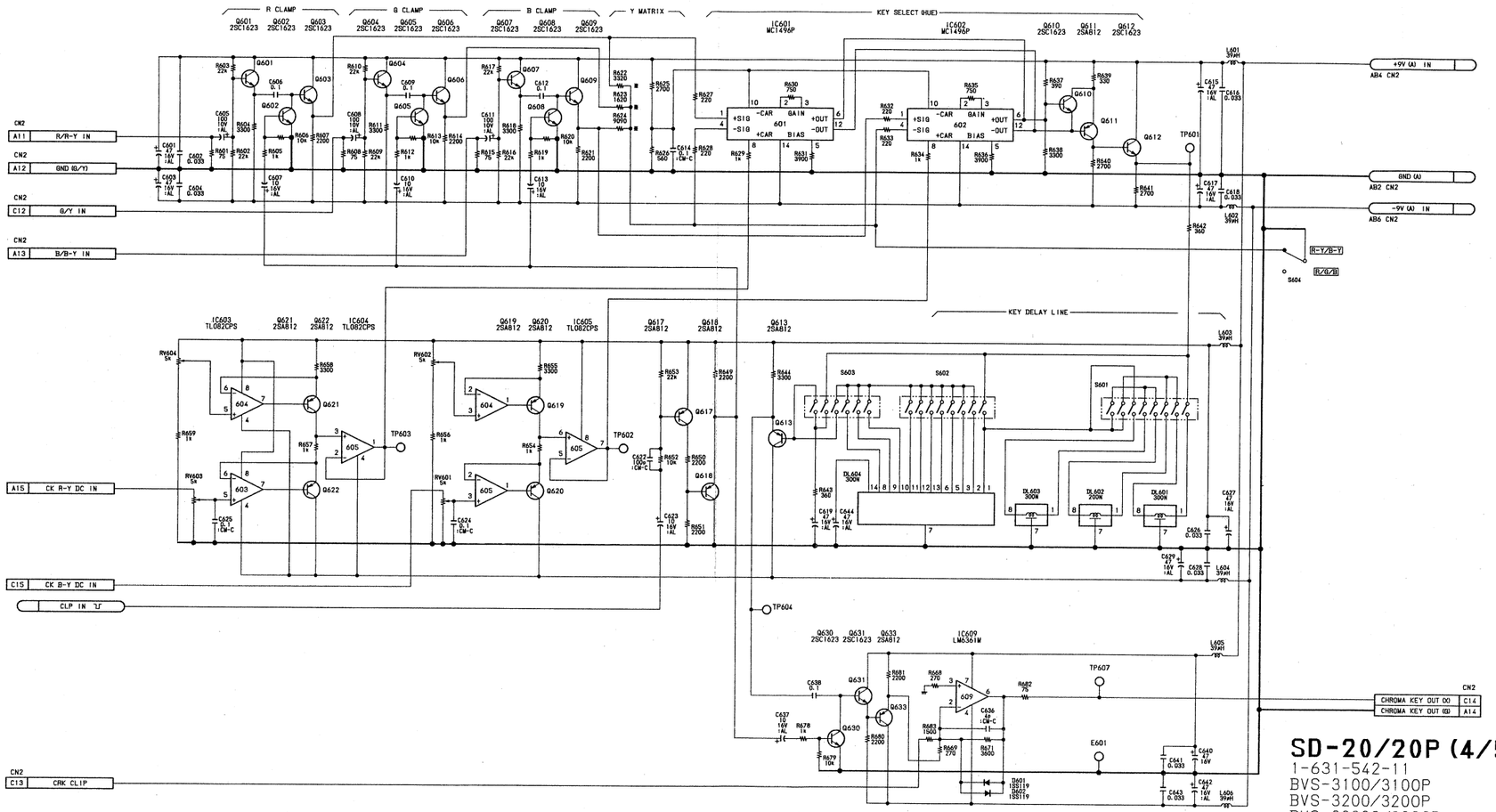
SD-20/20P (3/5) SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR



SD-20/20P (3/5)

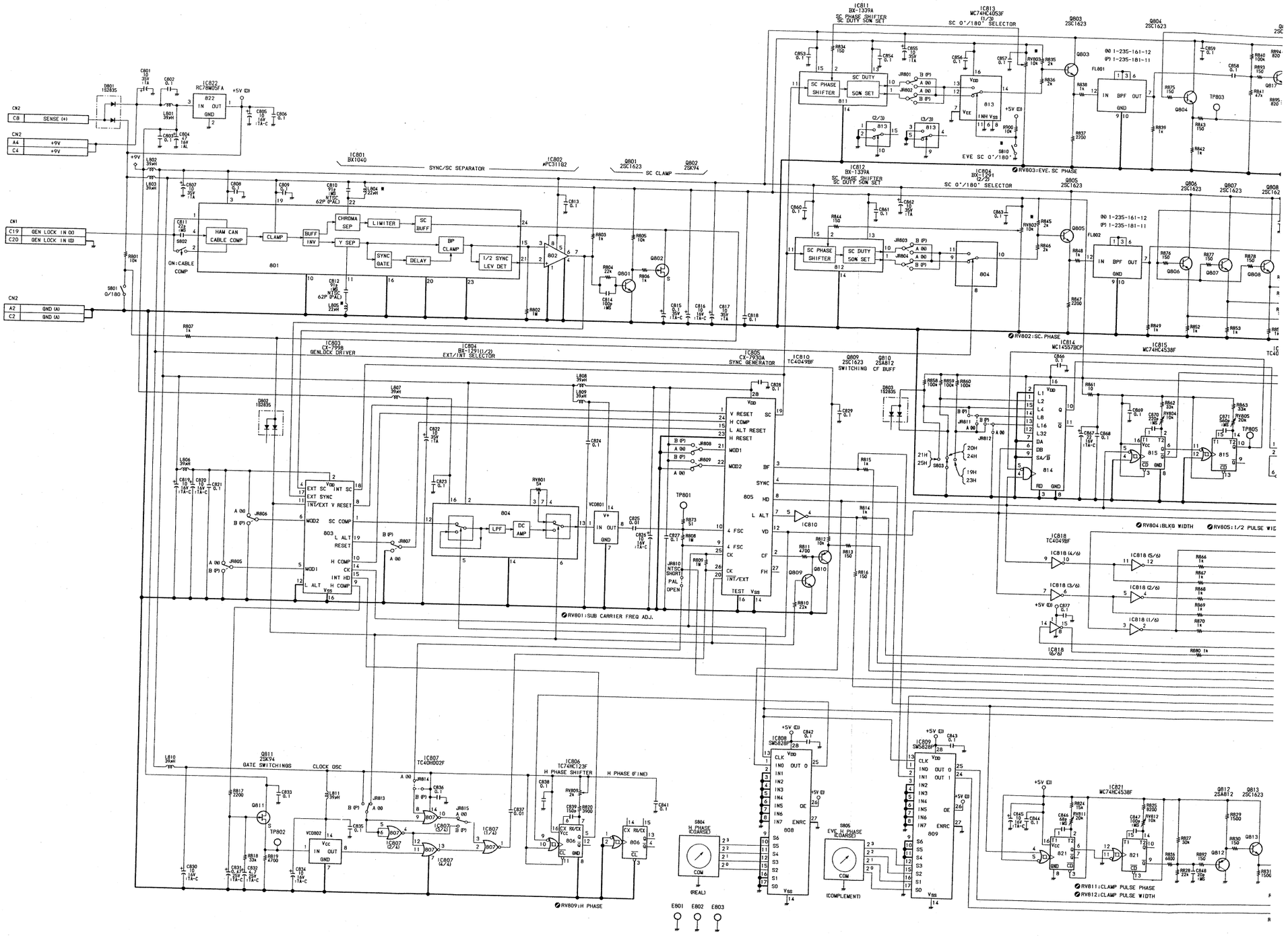
1-631-542-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

SD-20/20P (4/5) SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR



SD-20/20P (4/5)
1-631-542-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200P

SD-20/20P (5/5) SYNC GENERATOR CHROMA KEY DOWN STREAM KEY SIGNAL GENERATOR



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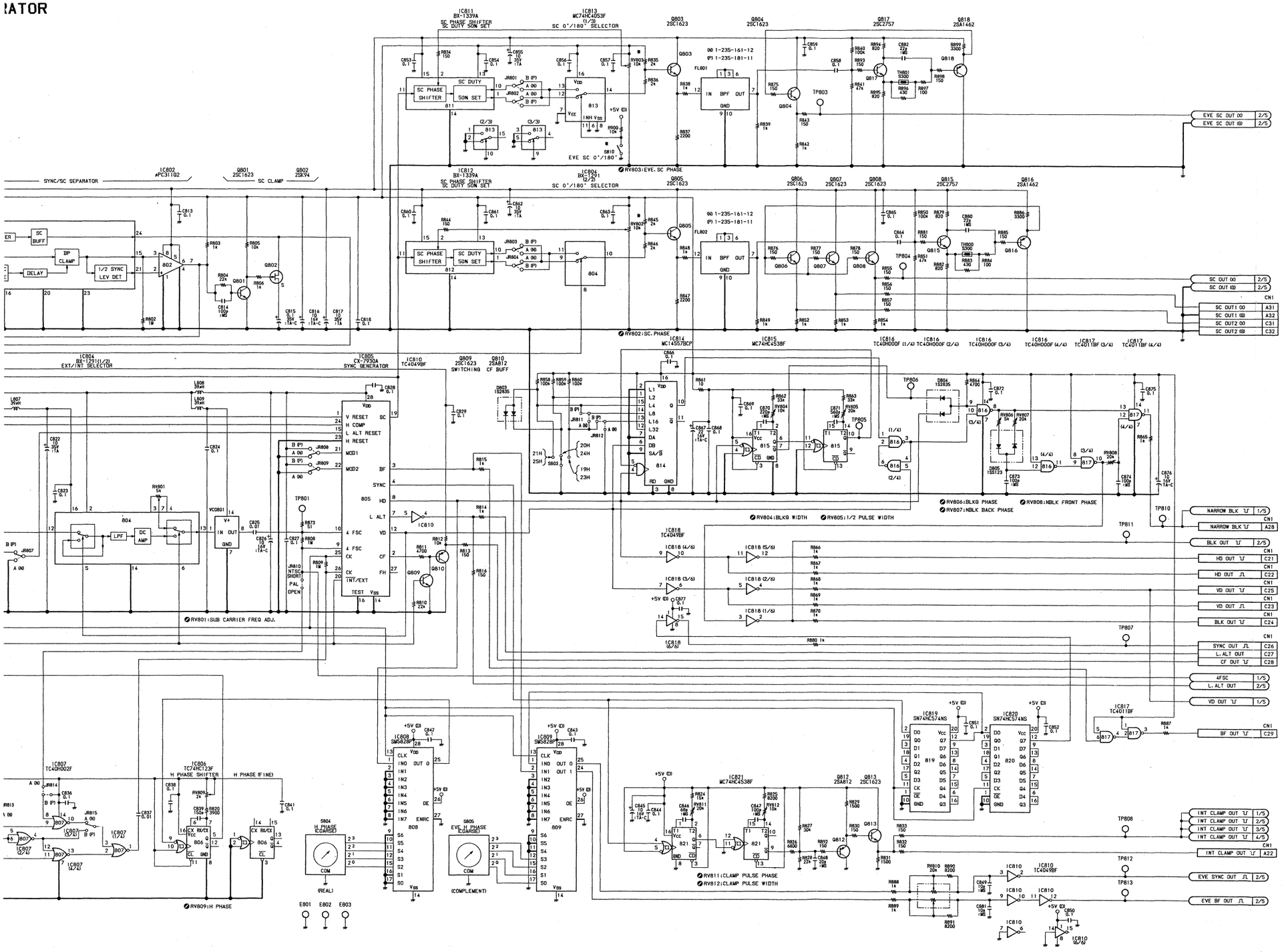
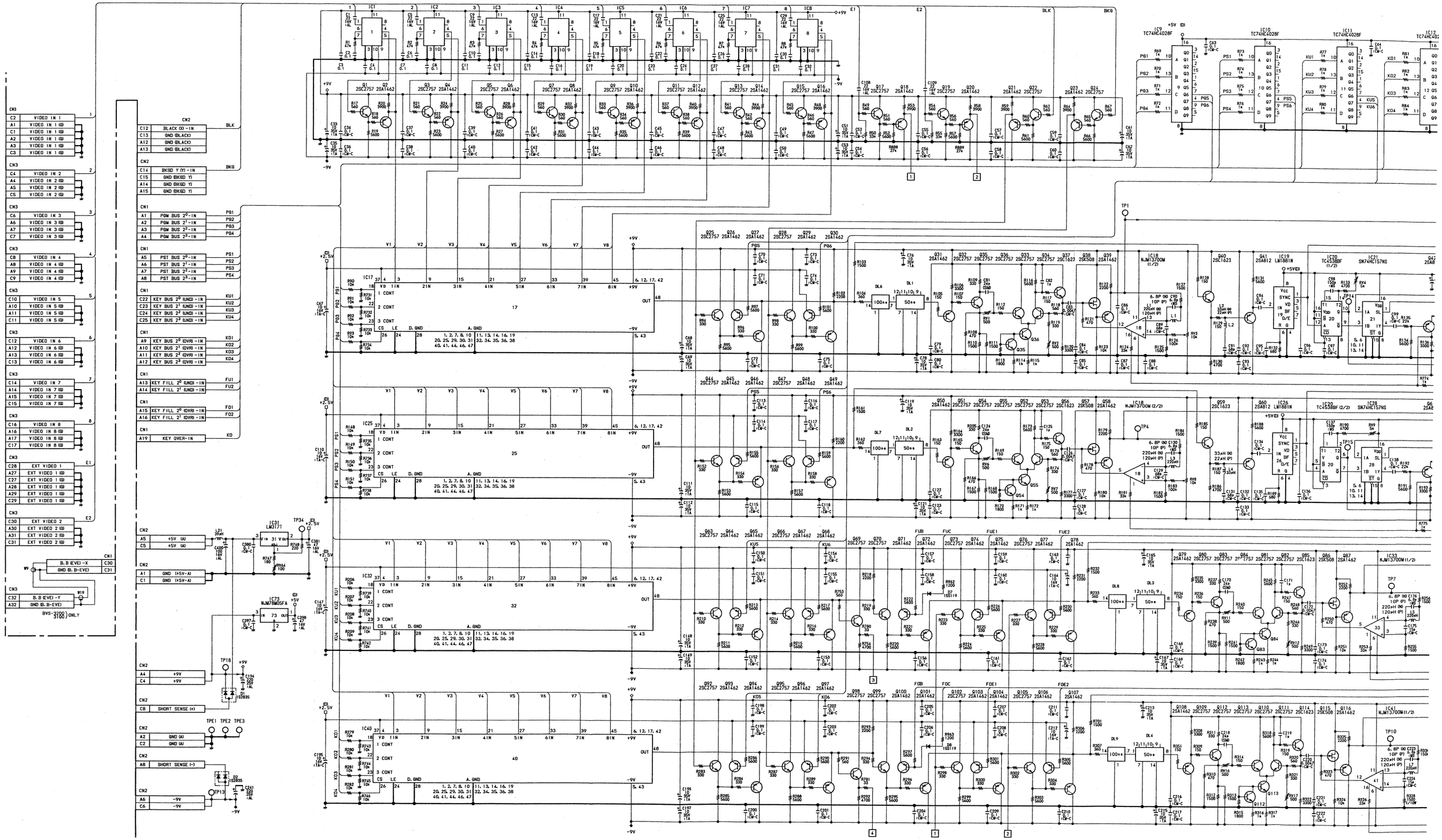


SD-20/20P (5/5)
1-631-542-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

D | E | F | G | H | I | J

PROCESS EF-20/20P　　EF-20/20P PRPCESS

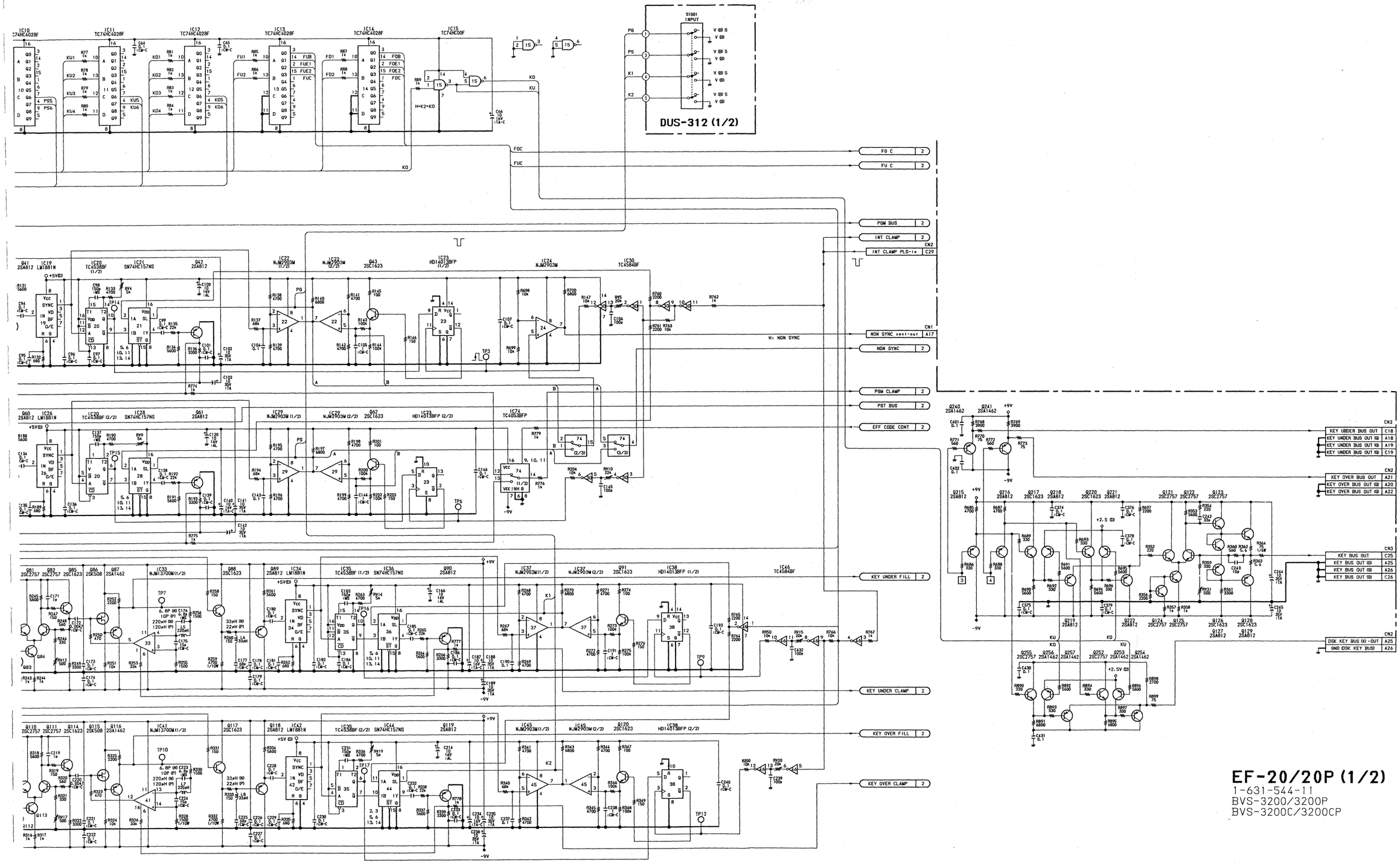
-20/20P (1/2) Y (COMPOSITE) SIGNAL PROCESSOR



7-105　　7-106

SYX133-EF20#1

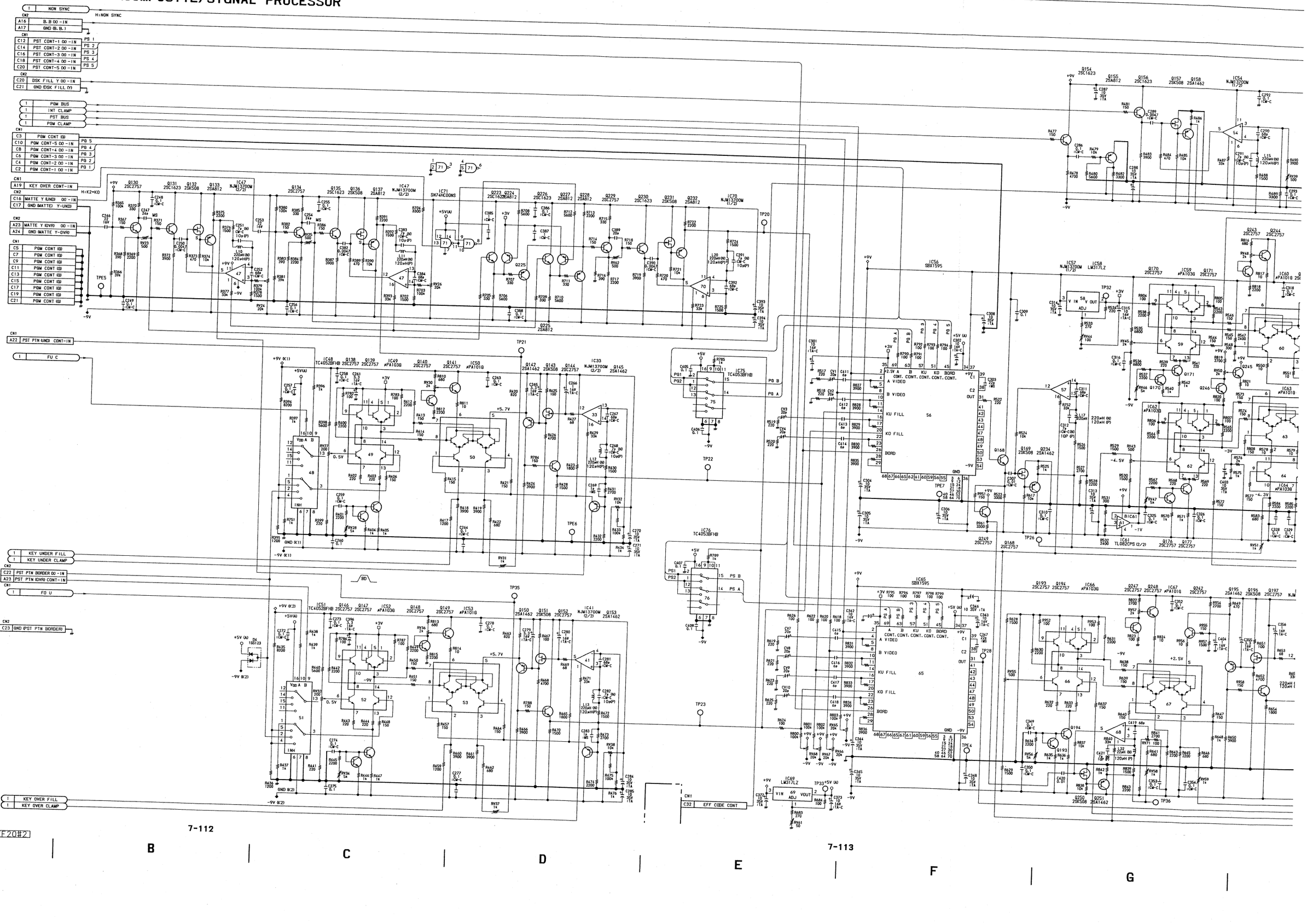
A | B | C | D | E | F | G

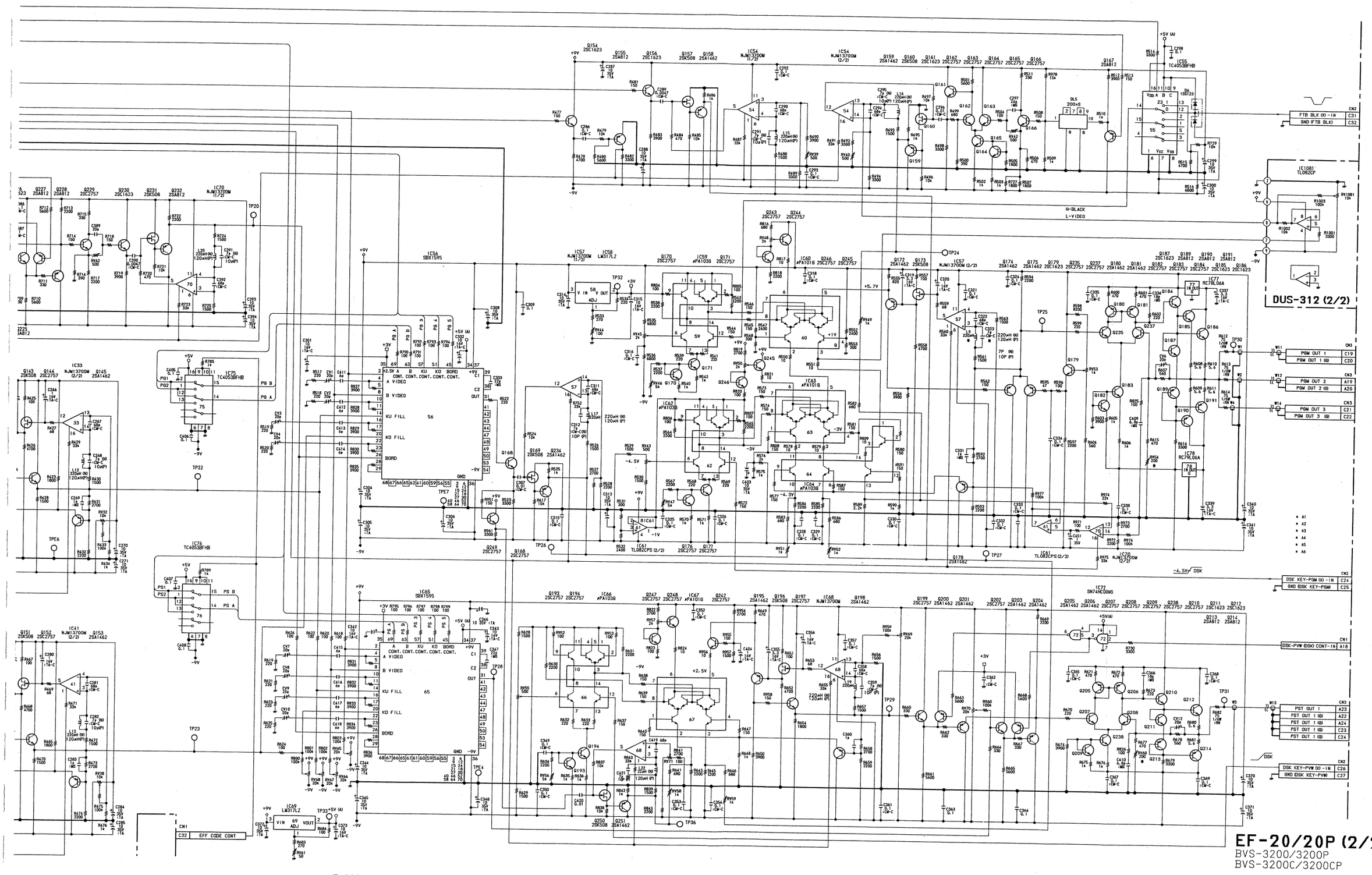


EF-20/20P (1/2)

1-631-544-11
BVS-3200/3200P
BVS-3200C/3200CP

EF-20/20P (2/2) Y (COMPOSITE) SIGNAL PROCESSOR

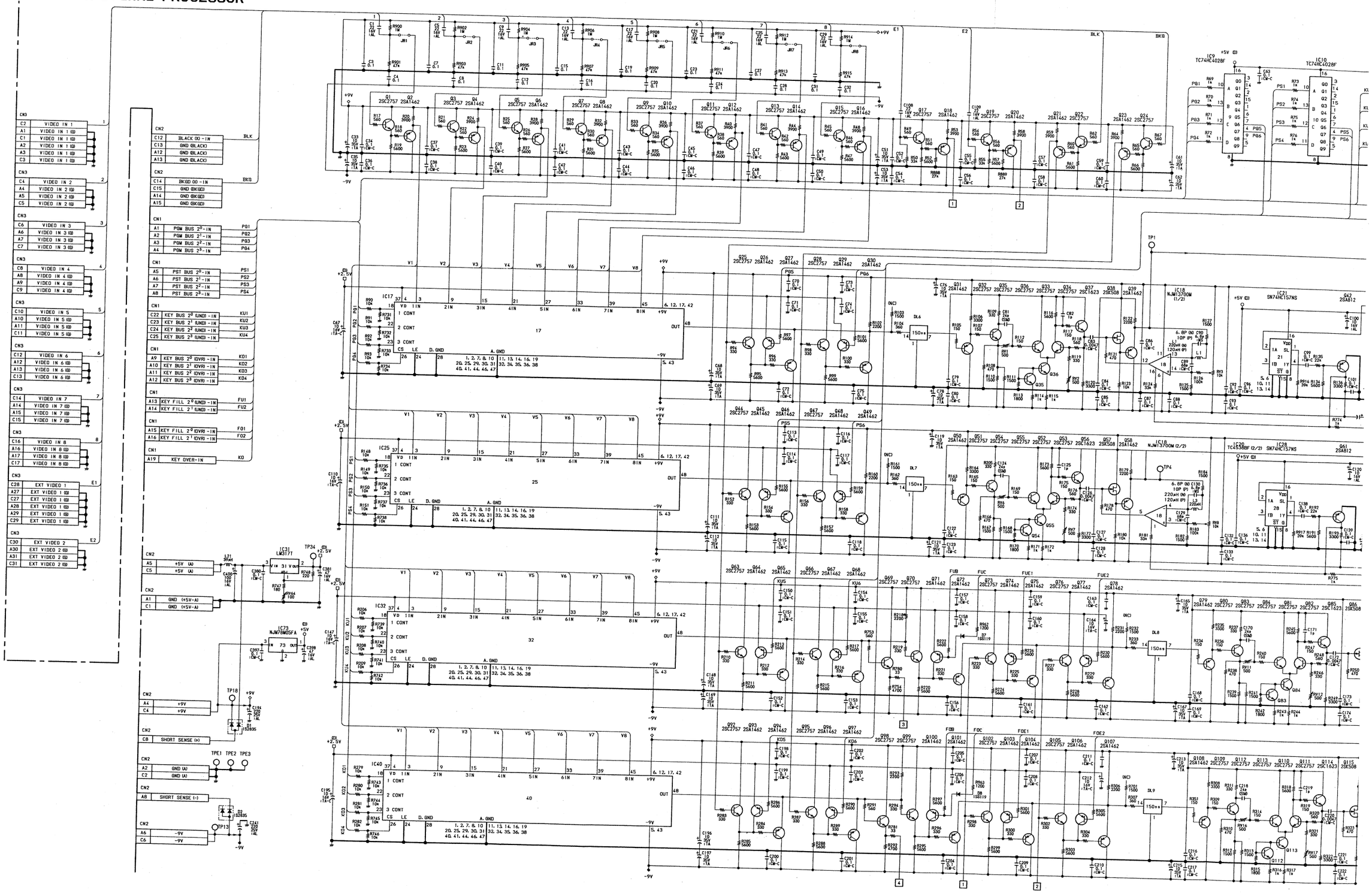


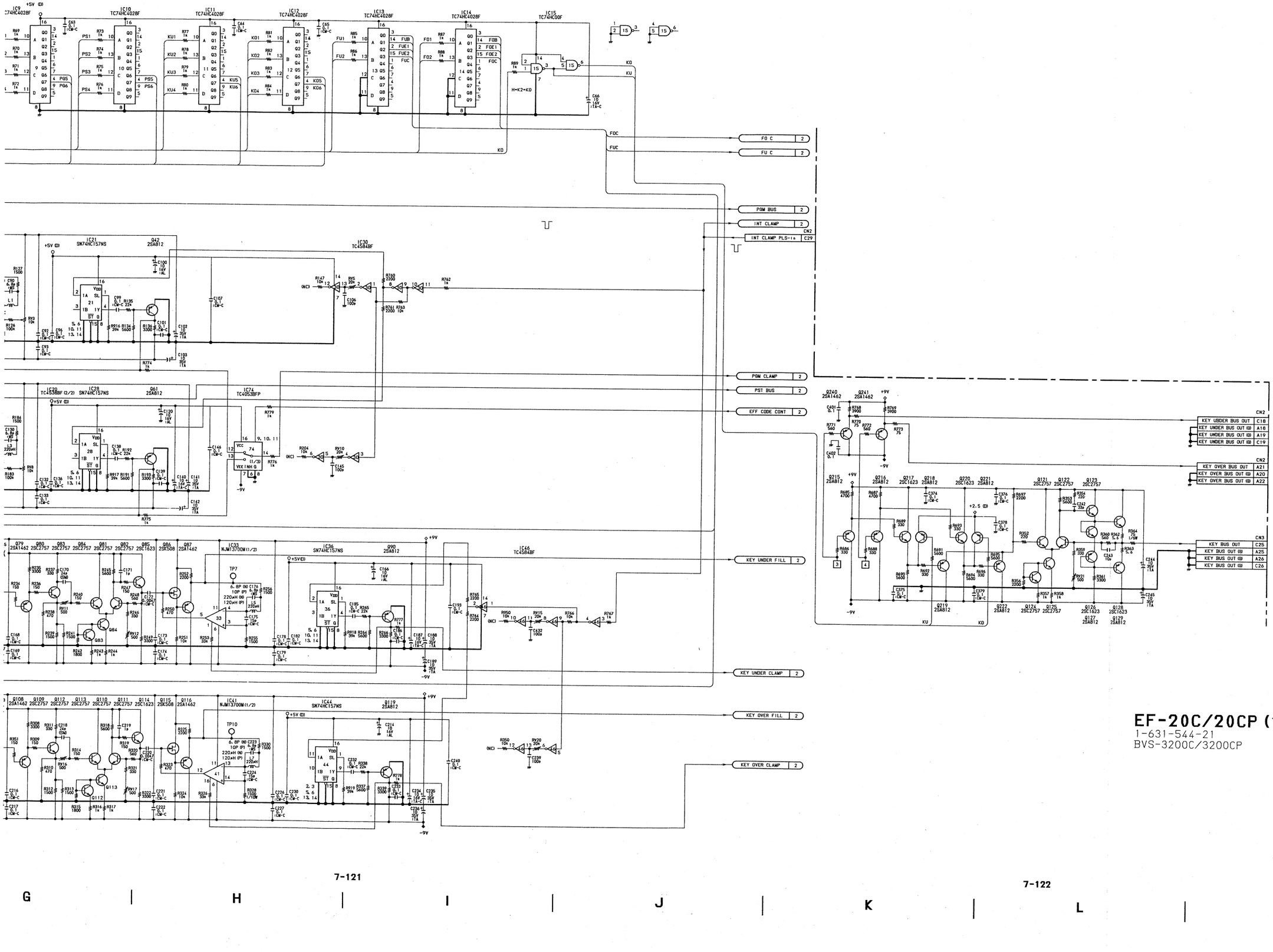


EF-20/20P (2/2)

BVS-3200/3200P
BVS-3200C/3200CP

EF-20C/20CP (1/2) B-Y (R-Y) SIGNAL PROCESSOR



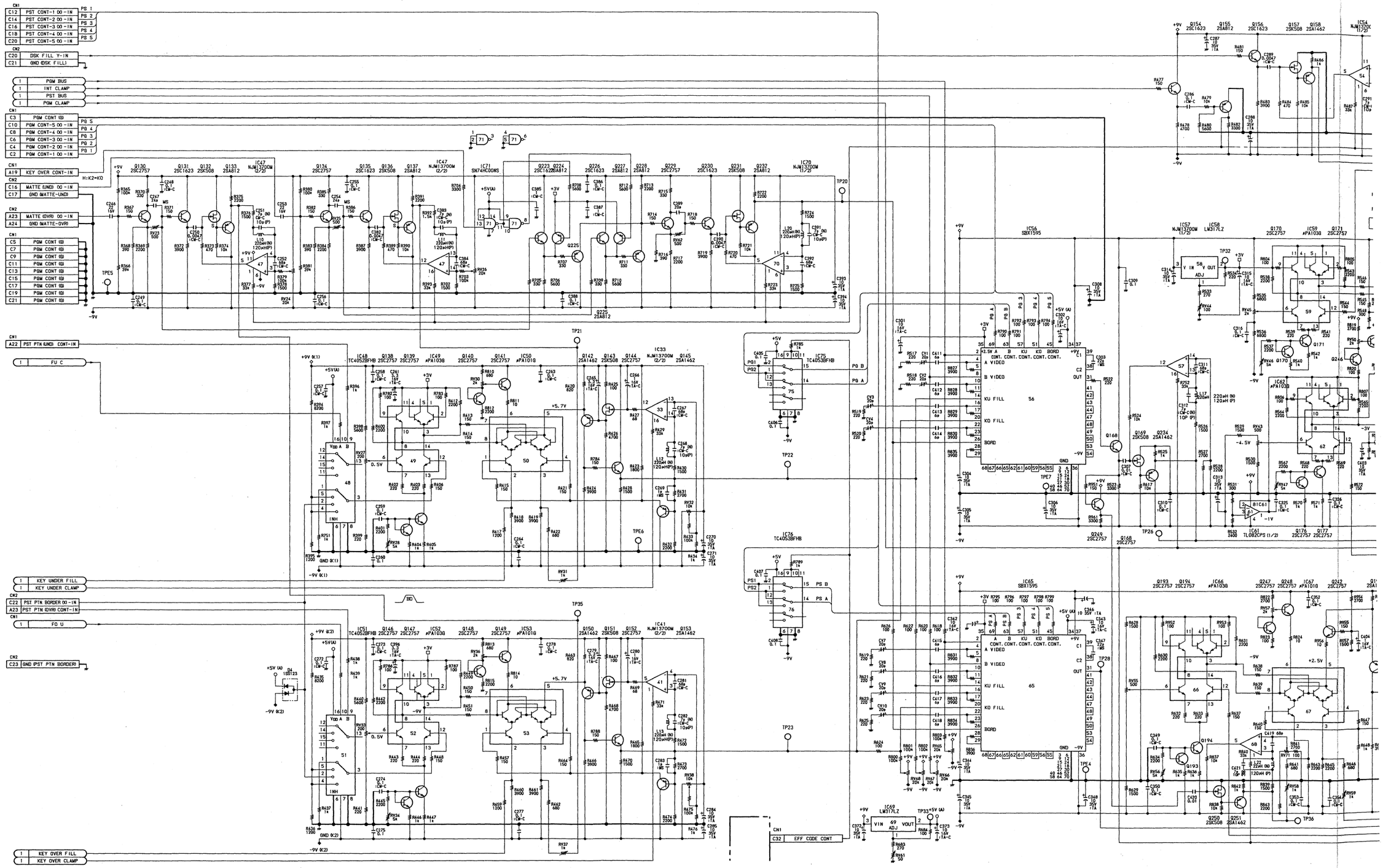


EF-20C/20CP (1/2)

1-631-544-21

BVS-3200C/3200CP

EF-20C/20CP (2/2) B-Y (R-Y) SIGNAL PROCESSOR



DUS-312

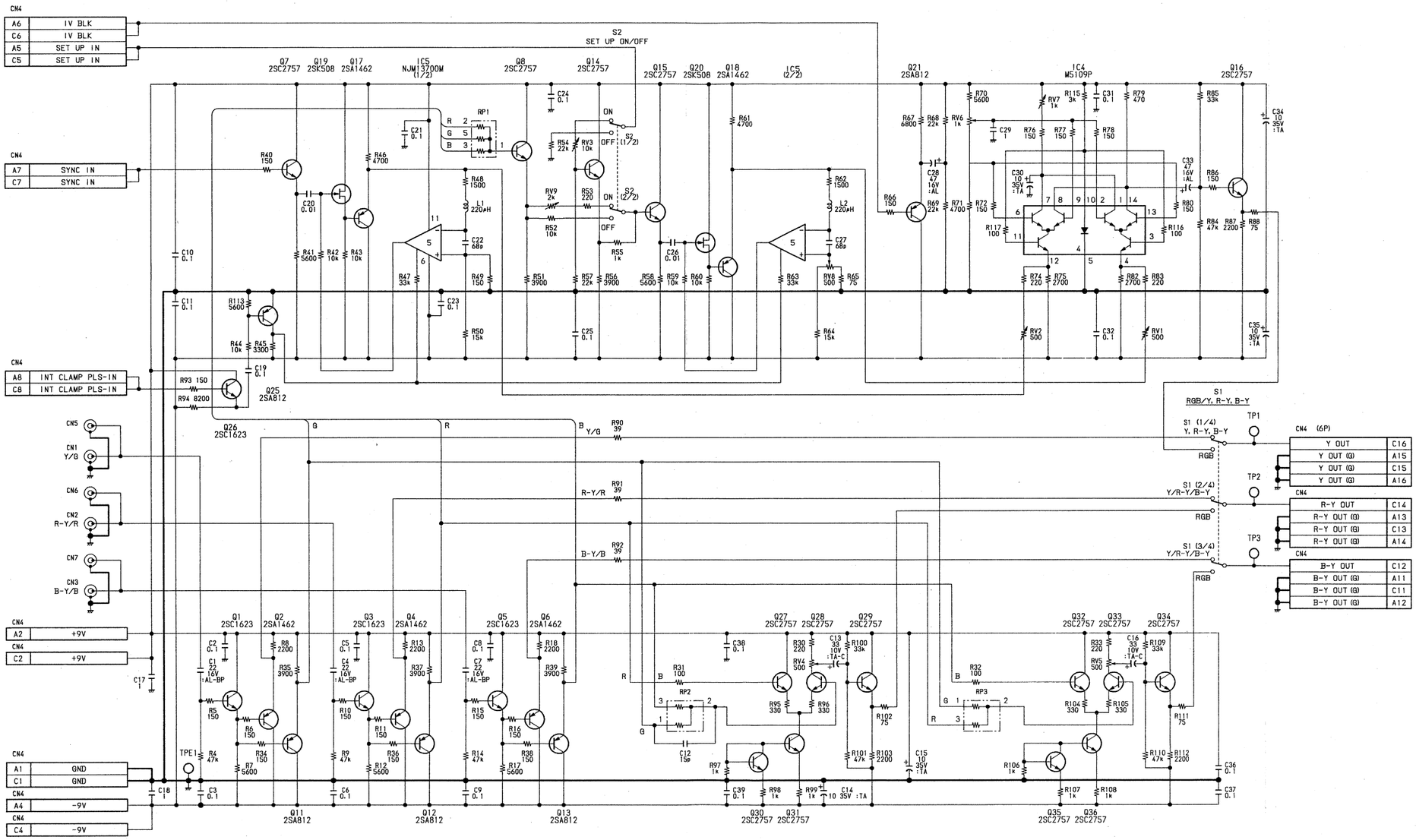
EF-20C/20CP (2/2)

1-631-544-21

BVS-3200C/3200CP

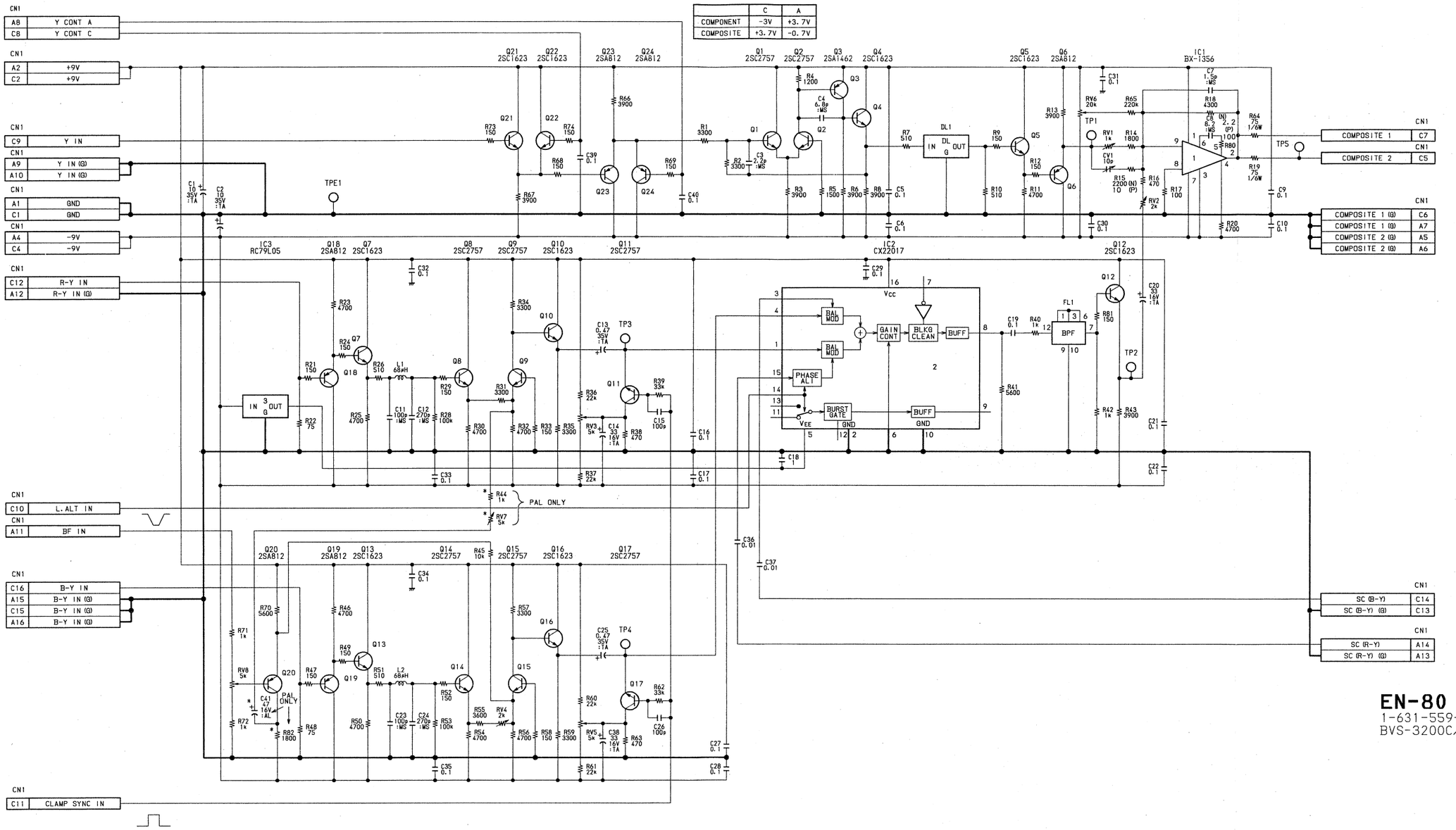
D | E | F | G | H | I | J

IV-25/25P MODE SET FOR INPUT VIDEO SIGNAL



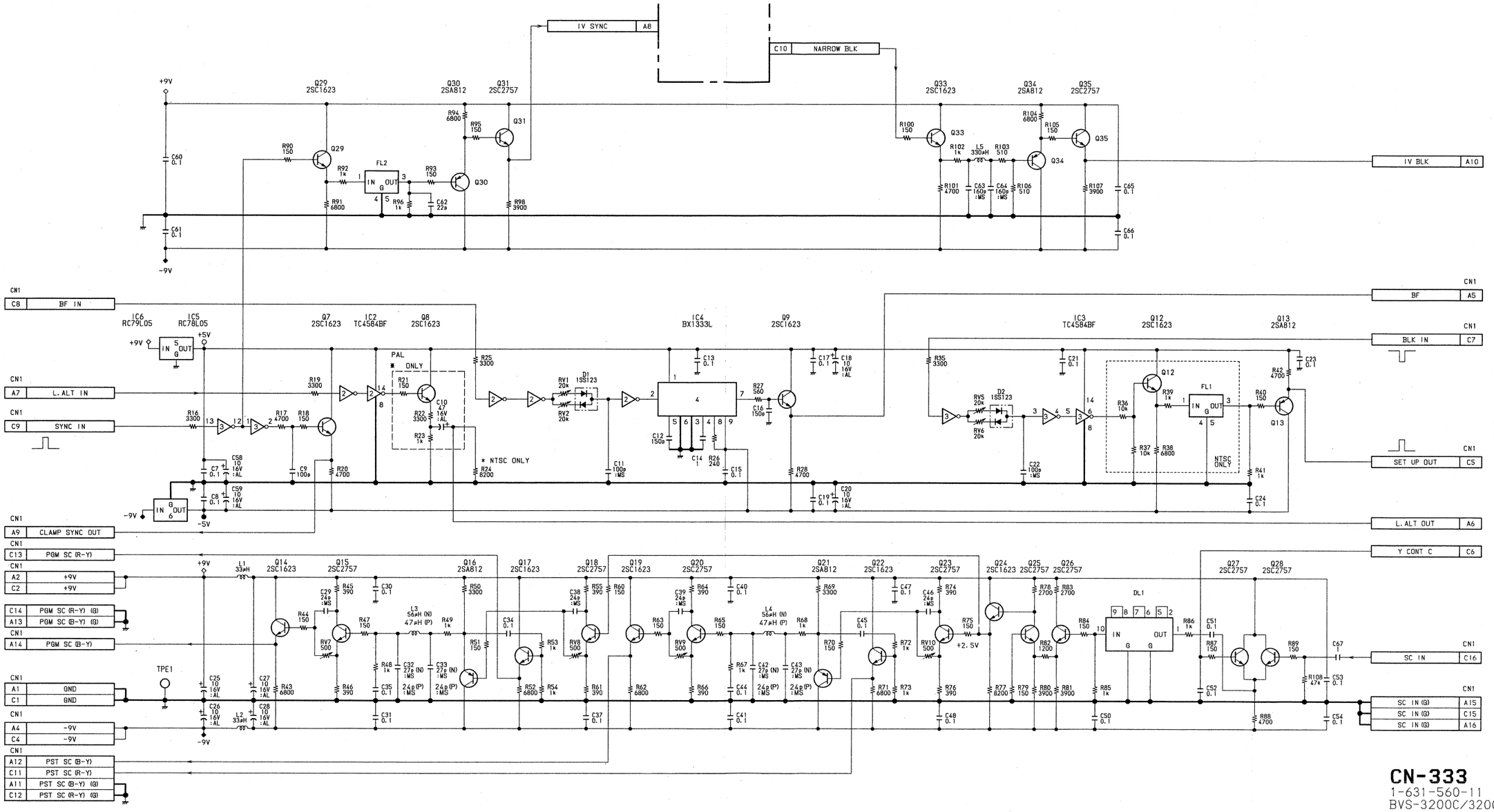
IV-25
1-631-558-11
BVS-3200C/3200CP

EN-80/80P ENCODER BOARD



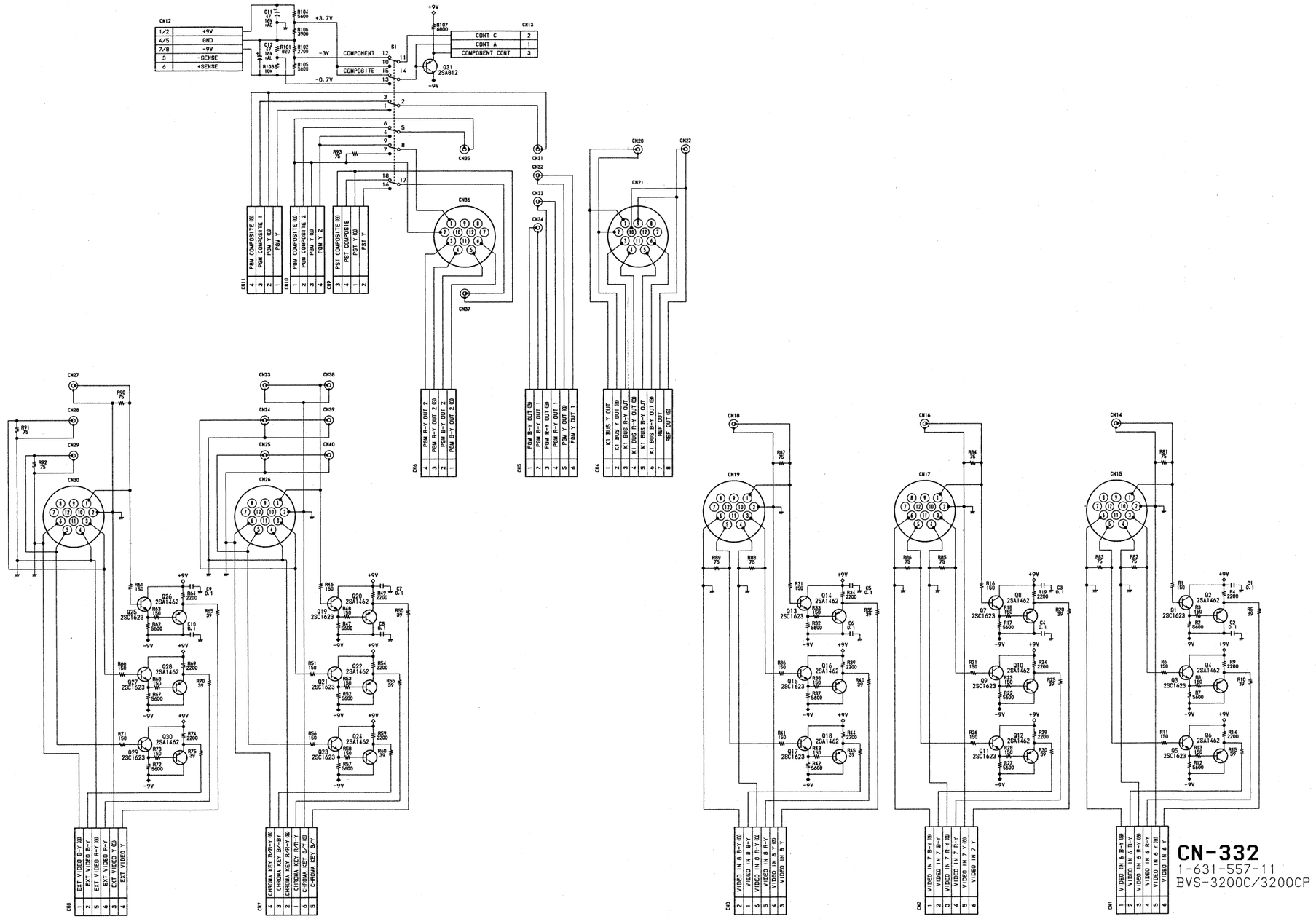
EN-80
1-631-559-11
BVS-3200C/3200CP

CN-333/333P SYNC SEPARATOR



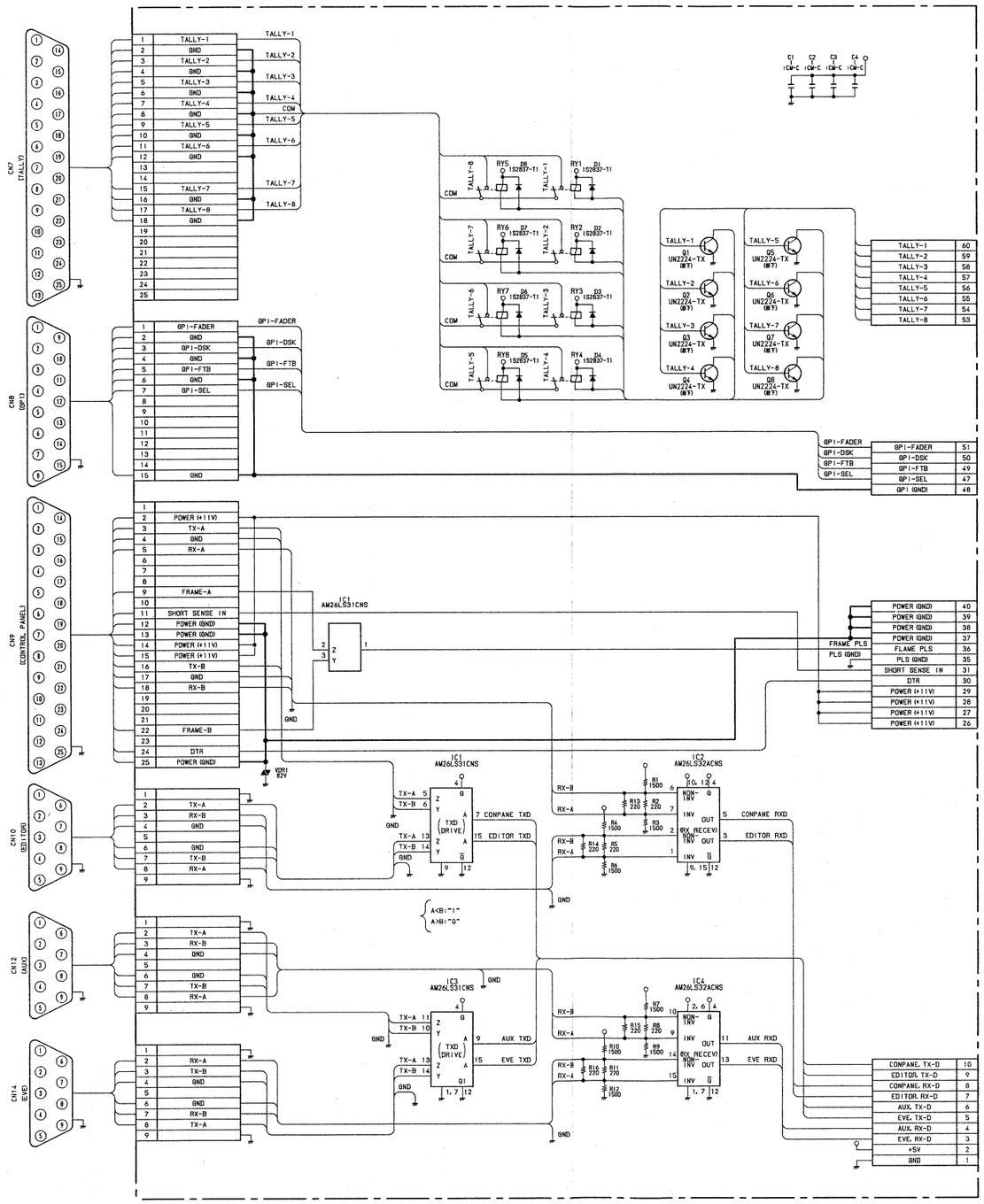
CN-333
1-631-560-11
BVS-3200C/3200CP

CN-332 CONNECTOR BOARD



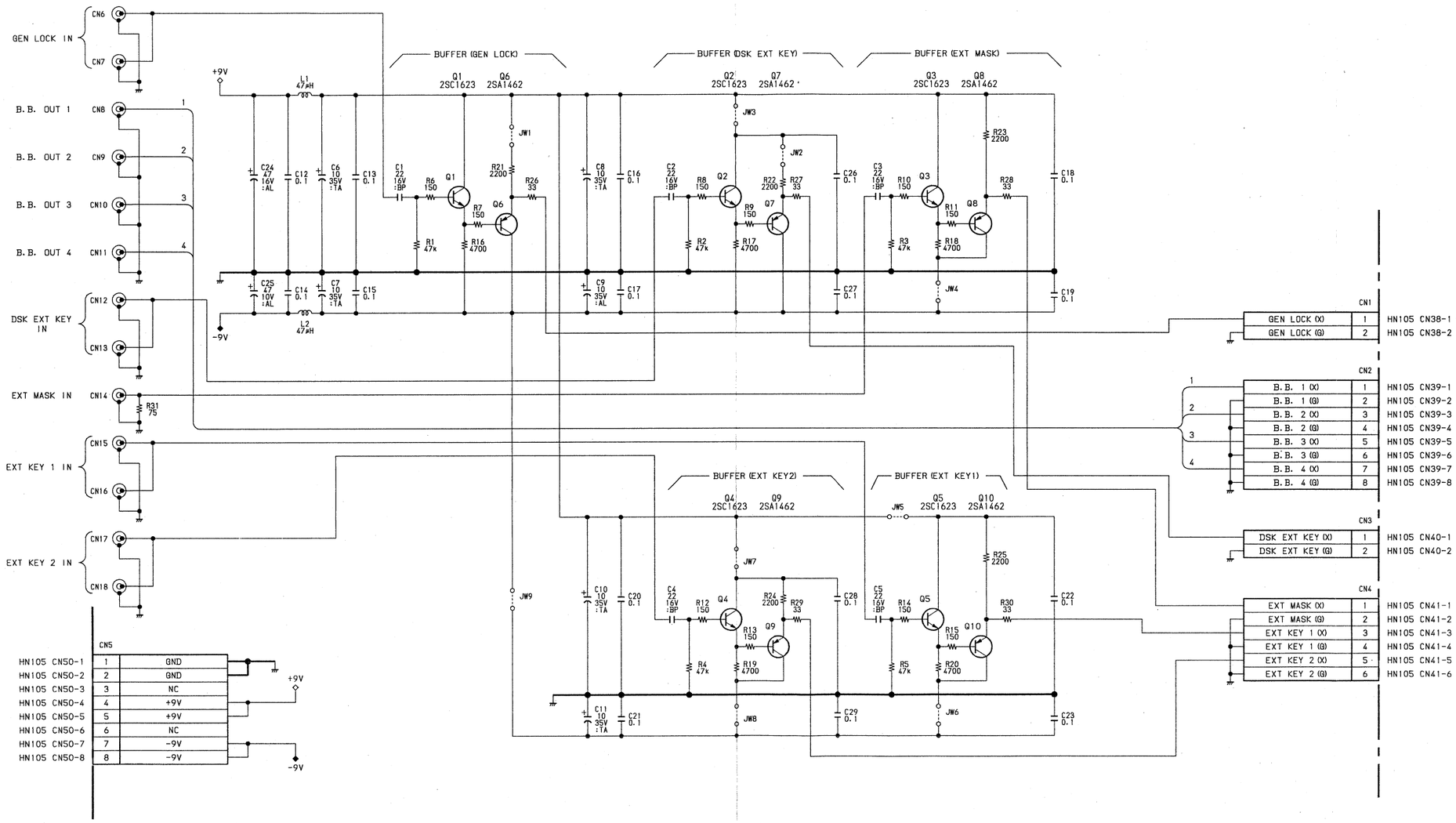
CN-332
1-631-557-11
BVS-3200C/3200CP

CN-336 CONNECTOR BOARD



CN-336
1-631-556-11
BVS-3200C/3200CP

CN-330 CONNECTOR BOARD



CN-330
1-631-792-11
BVS-3200C/3200CP

HN-105 (1/2) MOTHER BOARD

CN45

1	CK R/R-Y
2	GND (R/R-Y)
3	GND (B/Y)
4	CK B/Y
5	CK B/B-Y
6	GND (B/B-Y)

CN43

CN-336. CN-1. 1	1	GND
CN-336. CN-1. 2	2	+5V
CN-336. CN-1. 3	3	EVE RX-D
CN-336. CN-1. 4	4	AUX RX-D
CN-336. CN-1. 5	5	EVE TX-D
CN-336. CN-1. 6	6	AUX TX-D
CN-336. CN-1. 7	7	EDITOR RX-D
CN-336. CN-1. 8	8	CONPANE RX-D
CN-336. CN-1. 9	9	EDITOR TX-D
CN-336. CN-1. 10	10	CONPANE TX-D
CN-336. CN-1. 11	11	
CN-336. CN-1. 12	12	
CN-336. CN-1. 13	13	
CN-336. CN-1. 14	14	
CN-336. CN-1. 15	15	
CN-336. CN-1. 16	16	
CN-336. CN-1. 17	17	
CN-336. CN-1. 18	18	
CN-336. CN-1. 19	19	
CN-336. CN-1. 20	20	
CN-336. CN-1. 21	21	
CN-336. CN-1. 22	22	
CN-336. CN-1. 23	23	
CN-336. CN-1. 24	24	
CN-336. CN-1. 25	25	
CN-336. CN-1. 26	26	POWER (+9. 5V)
CN-336. CN-1. 27	27	POWER (+9. 5V)
CN-336. CN-1. 28	28	POWER (+9. 5V)
CN-336. CN-1. 29	29	POWER (+9. 5V)
CN-336. CN-1. 30	30	DTR
CN-336. CN-1. 31	31	SHORT SENSE
CN-336. CN-1. 32	32	
CN-336. CN-1. 33	33	
CN-336. CN-1. 34	34	
CN-336. CN-1. 35	35	GND (FRAME)
CN-336. CN-1. 36	36	FRAME PLS
CN-336. CN-1. 37	37	GND (POWER)
CN-336. CN-1. 38	38	GND (POWER)
CN-336. CN-1. 39	39	GND (POWER)
CN-336. CN-1. 40	40	GND (POWER)
CN-336. CN-1. 41	41	
CN-336. CN-1. 42	42	
CN-336. CN-1. 43	43	
CN-336. CN-1. 44	44	
CN-336. CN-1. 45	45	
CN-336. CN-1. 46	46	
CN-336. CN-1. 47	47	GPI-SEL
CN-336. CN-1. 48	48	GND (GPI)
CN-336. CN-1. 49	49	GPI-FTB
CN-336. CN-1. 50	50	GPI-DSK
CN-336. CN-1. 51	51	GPI-FADER
CN-336. CN-1. 52	52	
CN-336. CN-1. 53	53	TALLY-8
CN-336. CN-1. 54	54	TALLY-7
CN-336. CN-1. 55	55	TALLY-6
CN-336. CN-1. 56	56	TALLY-5
CN-336. CN-1. 57	57	TALLY-4
CN-336. CN-1. 58	58	TALLY-3
CN-336. CN-1. 59	59	TALLY-2
CN-336. CN-1. 60	60	TALLY-1

CN44 SY138

A		C
TALLY-1	1	TALLY-2
TALLY-3	2	TALLY-4
TALLY-5	3	TALLY-6
TALLY-7	4	TALLY-8
	5	GPI-FADER
GPI-DSK	6	GPI-FTB
GND (GPI)	7	GPI-SEL
	8	
	9	
	10	
GND (POWER)	11	GND (POWER)
GND (POWER)	12	GND (POWER)
FRAME PLS	13	GND (FRAME)
	14	
	15	SHORT SENSE
DTR	16	POWER (+9. 5V)
POWER (+9. 5V)	17	POWER (+9. 5V)
POWER (+9. 5V)	18	
	19	
	20	
	21	
	22	
	23	
CK. R/R-Y	24	GND (R/R-Y)
GND (B/Y)	25	CK. B/Y
CK. B/B-Y	26	GND (B/B-Y)
	27	
CONPANE TX-D	28	EDITOR TX-D
CONPANE RX-D	29	EDITOR RX-D
AUX TX-D	30	EVE TX-D
AUX RX-D	31	EVE RX-D
+5V	32	GND

CN50

CN-330. CN-5. 8	8	-9V
CN-330. CN-5. 7	7	-9V
CN-330. CN-5. 6	6	
CN-330. CN-5. 5	5	+9V
CN-330. CN-5. 4	4	+9V
CN-330. CN-5. 3	3	
CN-330. CN-5. 2	2	GND (-9V)
CN-330. CN-5. 1	1	GND (+9V)

CN19

HN-138. CN-21. 1	10	GND (+9V)
HN-138. CN-21. 2	9	GND (-9V)
HN-138. CN-21. 3	8	
HN-138. CN-21. 4	7	+9V
HN-138. CN-21. 5	6	+9V
HN-138. CN-21. 6	5	
HN-138. CN-21. 7	4	-9V
HN-138. CN-21. 8	3	-9V
HN-138. CN-21. 9	2	SENSE (-)
HN-138. CN-21. 10	1	SENSE (+)

CN1 POWER

1	GND (+9V)	WP-27. CN-2. C2	
2	GND (+9V)	WP-27. CN-2. C2	
3	GND (+9V)	WP-27. CN-2. C2	
4	GND (+9V)	WP-27. CN-2. C2	
5	GND (+9V)	WP-27. CN-2. C2	
6	GND (-9V)	WP-27. CN-2. C2	
7	GND (-9V)	WP-27. CN-2. C2	
8	GND (-9V)	WP-27. CN-2. C2	
9	GND (-9V)	WP-27. CN-2. C2	
10	GND (-9V)	WP-27. CN-2. C2	
11			
12			
13	+9V	WP-27. CN-2. C4	
14	+9V	WP-27. CN-2. C4	
15	+9V	WP-27. CN-2. C4	
16	+9V	WP-27. CN-2. C4	
17	+9V	WP-27. CN-2. C4	
18			
19			
20			
21	-9V	WP-27. CN-2. C6	
22	-9V	WP-27. CN-2. C6	
23	-9V	WP-27. CN-2. C6	
24	-9V	WP-27. CN-2. C6	
25			
26	-9V	WP-27. CN-2. C6	
27			
28			
29	GND (+5V)	WP-27. CN-2. C1. 3	
30	GND (+5V)	WP-27. CN-2. C1. 3	
31	GND (+15V)	WP-27. CN-2. C2	
32	GND (+9. 5V)	SY-138. CN-4. C3	
33	GND (+5V-A)	EF-20. CN-10. C1	
34	GND (+9. 5V)	SY-138. CN-4. C3	
35			
36			
37	+5V	WP-27. CN-2. C5. 7	
38	+5V	WP-27. CN-2. C5. 7	
39	+5V (A)	EF-20. CN-10. C5	
40			
41			
42			
43	+9. 5V	SY-138. CN-4. C10	
44	+9. 5V	SY-138. CN-4. C10	
45			
46	SENSE (-)	WP-27. CN-2. A8	
47	+15V	SY-138. CN-4. C9	
48	SENSE (+)	WP-27. CN-2. C8	
49	EMERGENCY	SY-138. CN-5. C2	
50			

CN2 WP27

A		C	
SY-138. CN-4. C1	GND (D)	1	GND (D)	POWER. CN-1. 29. 30
SY-138. CN-4. C2	GND (A)	2	GND (A)	POWER. CN-1. 1-10. 31
	GND (+5V)	3	GND (+5V)	POWER. CN-1. 29. 30
SD-19. CN-6. C4	+9V	4	+9V	POWER. CN-1. 13-17
SY-138. CN-4. C5	+5V (D)	5	+5V (D)	POWER. CN-1. 37. 38
SY-138. CN-4. C6	-9V	6	-9V	POWER. CN-1. 21-24. 26
	+5V (D)	7	+5V (D)	POWER. CN-1. 37. 38
SY-138. CN-4. A8 POWER. CN-1. 46	SHORT SENSE (-)	8	SHORT SENSE (+)	POWER. CN-1. 48 SY-138. CN-4. C8
		9		
		10		
		11		
SY-138. CN-4. C28	PRESET UP-IN	12	PRESET LOW-IN	SY-138. CN-4. A28
SY-138. CN-4. C27	FADER UP-IN	13	FADER LOW-IN	SY-138. CN-4. A27
		14		
		15		
		16		
		17		
		18		
		19		
		20	GND (KEY MASK)	SD-19. CN-7. C21
		21	KEY MASK (DSK) 00 -IN	SD-19. CN-7. C22
SY-138. CN-4. C16	POSOTION-V-IN	22	POSOTION-H-IN	SY-138. CN-4. A16
		23	MASK LEFT-IN	SY-138. CN-4. C18
SY-138. CN-4. A17	MASK TOP-IN	24	MASK RIGHT-IN	SY-138. CN-4. A18
SY-138. CN-4. C17	MASK BOTTOM-IN	25	ASPECT-IN	SY-138. CN-4. A19
	GND (D)	26	GND (D)	
		27		
SD-19. CN-6. C16	GND (TRANS TQ)	28	TRNS TQ 00 -OUT	SD-19. CN-6. C15
SD-19. CN-6. C14	GND (TRANS TS)	29	TRNS TS 00 -OUT	SD-19. CN-6. C13
		30		
SD-19. CN-6. C18	GND (PST PG)	31	PST PTN PG 00 -OUT	SD-19. CN-6. C17
SD-19. CN-6. C20	GND (PST PS)	32	PST PTN PS 00 -OUT	SD-19. CN-6. C19

CN4 SY138

	A		C	
SD-19. CN-6. C1	GND (D)	1	GND (D)	WP-27. CN-2. A1
SD-19. CN-6. C2	GND (A)	2	GND (A)	WP-27. CN-2. A2
	GND (+9. 5V)	3	GND (+9. 5V)	POWER. CN-1. 32. 34
		4		
SD-19. CN-6. C5	+5V (D)	5	+5V (D)	WP-27. CN-2. A5
SD-19. CN-6. C6	-9V	6	-9V	WP-27. CN-2. A6
		7		
SD-19. CN-6. A8 WP-27. CN-2. A8	SHORT SENSE (-)	8	SHORT SENSE (+)	WP-27. CN-2. C8 SY
SD-20. CN-9. A1	DSK KEY-OUT	9	+15V	POWER. CN-1. 47
	+9. 5V (CONPANE)	10	+9. 5V (CONPANE)	POWER. CN-1. 43. 44
SD-19. CN-7. C20	FADE TO B/W-OUT	11	DSK-GAIN-OUT	SD-20. CN-8. C24
SD-20. CN-8. A10	CRK R/R-Y 00 -OUT	12	CRK GAIN	SD-20. CN-8. C10
SD-20. CN-8. A11	GND (B/Y)	13	CRK B/Y 00 -OUT	SD-20. CN-8. C11
SD-20. CN-8. A12	CRK B/B-Y 00 -OUT	14	CRK CLIP	SD-20. CN-8. C12
EF-20. CN-11. C28	UNDER KEY-OUT	15	EFF CODE CONT-OUT	EF-20. CN-11. C32
WP-27. CN-2. C22	POSITION-H-OUT	16	POSITION-V-OUT	WP-27. CN-2. A22
WP-27. CN-2. A24	MASK TOP-OUT	17	MASK BOTTOM-OUT	WP-27. CN-2. A25
WP-27. CN-2. C24	MASK RIGHT-OUT	18	MASK LEFT-OUT	WP-27. CN-2. C23
WP-27. CN-2. C25	ASPECT-OUT	19	MATTE R-Y (UND) -OUT	SD-19. CN-6. A16
SD-19. CN-6. A17	MATTE B-Y (UND) -OUT	20	MATTE LUM (UND) -OUT	SD-19. CN-6. A15
SD-20. CN-8. A25	DSK MATTE R-Y-OUT	21	DSK MATTE B-Y-OUT	SD-20. CN-8. C25
SD-20. CN-8. A26	DSK MATTE LUM-OUT	22	BKGD R-Y-OUT	SD-19. CN-6. A10
SD-19. CN-6. A11	BKGD B-Y-OUT	23	BKGD LUM-OUT	SD-19. CN-6. A9
SD-19. CN-7. C14	KEY-GAIN (UND) -OUT	24	KEY-CLIP (UND) -OUT	SD-19. CN-7. C15 SE
SD-19. CN-7. C16	KEY-GAIN (OVR) -OUT	25	KEY-CLIP (OVR) -OUT	SD-19. CN-7. C17
SD-19. CN-6. A13	MATTE R-Y (OVR) -OUT	26	FTB-FADER-OUT	SD-19. CN-6. A18
WP-27. CN-2. C13	FADER-LOW-OUT	27	FADER-UP-OUT	WP-27. CN-2. A13
WP-27. CN-2. C12	PRESET-LOW-OUT	28	PRESET-UP-OUT	WP-27. CN-2. A12
SD-19. CN-6. A14	MATTE B-Y (OVR) -OUT	29	MATTE LUM (OVR) -OUT	SD-19. CN-6. A12
SD-20. CN-8. A15	CRK R-Y-OUT	30	CRK B-Y-OUT	SD-20. CN-8. C15
SD-20. CN-8. A27	DSK-FADER-OUT	31	DSK-CLIP-OUT	SD-20. CN-8. C27
SD-19. CN-6. A19	GND (D)	32	BORDER-LUM (DSK) -OUT	SD-20. CN-9. A12

CN3 WP27

A		C	
	1	MIX CONT-IN	SY-138. CN-5. A8
	2	WIPE BORDER ON/OFF	SD-19. CN-7. C18
	3		
SD-20. CN-9. C22	HD 00 -IN	4	HD (P) -IN	SD-20. CN-9. C21
SY-138. CN-5. C1	VD (P) -IN	5	VD 00 -IN	SD-20. CN-9. C23
SD-19. CN-7. C4	BLK-IN	6		
		7	N. BLK-IN	SD-20. CN-9. A28
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21	REVERSE WIPE-IN	SY-138. CN-5. C15
SY-138. CN-5. C14	ASPECT-IN	22		
		23		
		24		
		25		
		26		
		27		
		28	WP# X-2^0-IN	SY-138. CN-5. A10
SY-138. CN-5. C10	WP# X-2^1-IN	29	WP# X-2^2-IN	SY-138. CN-5. A11
SY-138. CN-5. C11	WP# XX-2^0-IN	30	WP# XX-2^1-IN	SY-138. CN-5. A12
SY-138. CN-5. C12	WP# XX-2^2-IN	31		
		32		

CN5 SY138

	A		C	
SD-19. CN-6. C26	KEY OVER-OUT	1	VD (P) -IN	SD-20. CN-9. C25 W
EF-20. CN-11. A9	KEY BUS 2^0 (OVR) -OUT	2	EMERGENCY-IN	POWER. CN-1. 49
SD-19. CN-7. A29	KEY SOURCE 2^0 (UND) -OUT	3	KEY SOURCE 2^1 (UND) -OUT	SD-19. CN-7. A28
SD-19. CN-7. A27	KEY SOURCE 2^2 (UND) -OUT	4	KEY SOURCE 2^0 (OVR) -OUT	SD-19. CN-7. A32
SD-19. CN-7. A31	KEY SOURCE 2^1 (OVR) -OUT	5	KEY SOURCE 2^2 (OVR) -OUT	SD-19. CN-7. A30
SD-19. CN-7. A24	KEY INVERT (UND) -OUT	6	KEY EXT MASK (UND) -OUT	SD-19. CN-7. C25
SD-19. CN-7. C26	KEY MASK-ON (UND) -OUT	7	KEY BUS 2^1 (OVR) -OUT	EF-20. CN-11. A10
WP-27. CN-3. C1	MIX-OUT	8	WP PVW-OUT	SD-19. CN-7. C12
SD-20. CN-9. A13	KEY INVERT (DSK) -OUT	9	KEY MASK (DSK) -OUT	SD-20. CN-9. C13
WP-27. CN-3. C28	WP #X-2^0-OUT	10	WP #X-2^1-OUT	WP-27. CN-3. A29
WP-27. CN-3. C29	WP #X-2^2-OUT	11	WP #XX-2^0-OUT	WP-27. CN-3. A30
WP-27. CN-3. C30	WP #XX-2^1-OUT	12	WP #XX-2^2-OUT	WP-27. CN-3. A31
SD-19. CN-7. C24	KEY MASK-ON (OVR) -OUT	13	KEY EXT MASK (OVR) -OUT	SD-19. CN-7. C23
SD-19. CN-7. A23	KEY INVERT (OVR) -OUT	14	ASPECT-OUT	WP-27. CN-3. A22
EF-20. CN-11. C29	OVER KEY-OUT	15	REVERSE WIPE-OUT	WP-27. CN-3. C21
SD-20. CN-9. A14	SOURCE KEY-BUS (DSK) -OUT	16	SOURCE EXTS (DSK) -OUT	SD-20. CN-9. C14
SD-20. CN-9. A15	FILL DSK-MATTE (DSK) -OUT	17	FILL EXT-VIDEO (DSK) -OUT	SD-20. CN-9. C15
SD-20. CN-9. A16	OUT-LINE (DSK) -OUT	18	DROP-SHADOW (DSK) -OUT	SD-20. CN-9. C16
SD-20. CN-9. A17	BORDER-LINE (DSK) -OUT	19	LINE 4H/2H (DSK) -OUT	SD-20. CN-9. C17
SD-20. CN-9. A18	DSK PVW (DSK) -OUT	20	NON-SYNC-IN	EF-20. CN-11. A17
SD-19. CN-7. C13	PRESET BORDER-OUT	21	EFF CONT 2^0-OUT	SD-19. CN-7. C32
SD-19. CN-7. C31	EFF CONT 2^1-OUT	22	EFF CONT 2^2-OUT	SD-19. CN-7. C30
SD-19. CN-7. C29	EFF CONT 2^3-OUT	23	EFF CONT 2^4-OUT	SD-19. CN-7. C28
EF-20. CN-11. A11	KEY BUS 2^2 (OVR) -OUT	24	KEY BUS 2^3 (OVR) -OUT	EF-20. CN-11. A12
EF-20. CN-11. C22	KEY BUS 2^0 (UND) -OUT	25	KEY BUS 2^1 (UND) -OUT	EF-20. CN-11. C23
EF-20. CN-11. C24	KEY BUS 2^2 (UND) -OUT	26	KEY BUS 2^3 (UND) -OUT	EF-20. CN-11. C25
EF-20. CN-11. A13	KEY FILL 2^0 (UND) -OUT	27	KEY FILL 2^1 (UND) -OUT	EF-20. CN-11. A14
EF-20. CN-11. A15	KEY FILL 2^0 (OVR) -OUT	28	KEY FILL 2^1 (OVR) -OUT	EF-20. CN-11. A16
EF-20. CN-11. A1	PGM-BUS 2^0-OUT	29	PGM BUS 2^1-OUT	EF-20. CN-11. A2
EF-20. CN-11. A3	PGM-BUS 2^2-OUT	30	PGM BUS 2^3-OUT	EF-20. CN-11. A4
EF-20. CN-11. A5	PST-BUS 2^0-OUT	31	PST-BUS 2^1-OUT	EF-20. CN-11. A6
EF-20. CN-11. A7	PST-BUS 2^2-OUT	32	PST-BUS 2^3-OUT	EF-20. CN-11. A8

PROCESS HN-105　　HN-105 PROCESS

CN42
SD19

A		C
GEN LOCK IN (G)	1	GEN LOCK IN (O)
GEN LOCK IN (G)	2	GEN LOCK IN (G)
	3	
B.B. OUT 1 (G)	4	B.B. OUT 1 (G)
B.B. OUT 1 (G)	5	B.B. OUT 1 (O)
B.B. OUT 1 (G)	6	B.B. OUT 1 (G)
B.B. OUT 2 (G)	7	B.B. OUT 2 (O)
B.B. OUT 2 (G)	8	B.B. OUT 2 (G)
B.B. OUT 3 (G)	9	B.B. OUT 3 (O)
B.B. OUT 3 (G)	10	B.B. OUT 3 (G)
B.B. OUT 4 (G)	11	B.B. OUT 4 (O)
B.B. OUT 4 (G)	12	B.B. OUT 4 (G)
	13	
DSK EXT KEY (G)	14	DSK EXT KEY (G)
DSK EXT KEY (G)	15	DSK EXT KEY (O)
DSK EXT KEY (G)	16	DSK EXT KEY (G)
DSK EXT VIDEO (G)	17	DSK EXT VIDEO (O)
DSK EXT VIDEO (G)	18	DSK EXT VIDEO (G)
	19	
EXT MASK (G)	20	EXT MASK (G)
EXT MASK (G)	21	EXT MASK (O)
EXT MASK (G)	22	EXT MASK (G)
	23	
EXT KEY 1 (G)	24	EXT KEY 1 (G)
EXT KEY 1 (G)	25	EXT KEY 1 (O)
EXT KEY 1 (G)	26	EXT KEY 1 (G)
EXT KEY 2 (G)	27	EXT KEY 2 (O)
EXT KEY 2 (G)	28	EXT KEY 2 (G)
	29	
	30	
	31	
	32	

CN38

1	GEN LOCK (O)	CN330. CN1. 1
2	GEN LOCK (G)	CN330. CN1. 2

CN39

1	B.B. OUT 1 (O)	CN330. CN2. 1
2	B.B. OUT 1 (G)	CN330. CN2. 2
3	B.B. OUT 2 (O)	CN330. CN2. 3
4	B.B. OUT 2 (G)	CN330. CN2. 4
5	B.B. OUT 3 (O)	CN330. CN2. 5
6	B.B. OUT 3 (G)	CN330. CN2. 6
7	B.B. OUT 4 (O)	CN330. CN2. 7
8	B.B. OUT 4 (G)	CN330. CN2. 8

CN40

1	DSK EXT KEY (O)	CN330. CN3. 1
2	DSK EXT KEY (G)	CN330. CN3. 2

CN41

1	EXT MASK (O)	CN330. CN4. 1
2	EXT MASK (G)	CN330. CN4. 2
3	EXT KEY 1 (O)	CN330. CN4. 3
4	EXT KEY 1 (G)	CN330. CN4. 4
5	EXT KEY 2 (O)	CN330. CN4. 5
6	EXT KEY 2 (G)	CN330. CN4. 6

C		
D (O)	WP-27. CN-2. A1	
D (A)	WP-27. CN-2. A2	
+9. 5V)	POWER. CN-1. 32. 34	
Y (O)	WP-27. CN-2. A5	
-9V	WP-27. CN-2. A6	
SENSE (+)	WP-27. CN-2. C8	SD-19. CN-6. C8
15V	POWER. CN-1. 47	
CONPANE)	POWER. CN-1. 43. 44	
AIN-OUT	SD-20. CN-8. C24	
GAIN	SD-20. CN-8. C10	
Y (O) -OUT	SD-20. CN-8. C11	
CLIP	SD-20. CN-8. C12	
CONT-OUT	EF-20. CN-11. C32	
ON-Y-OUT	WP-27. CN-2. A22	
TTOM-OUT	WP-27. CN-2. A25	
EFT-OUT	WP-27. CN-2. C23	
Y (UND) -OUT	SD-19. CN-6. A16	
M (UND) -OUT	SD-19. CN-6. A15	
E B-Y-OUT	SD-20. CN-8. C25	
R-Y-OUT	SD-19. CN-6. A10	
LUM-OUT	SD-19. CN-6. A9	
(UND) -OUT	SD-19. CN-7. C15	SD-20. CN-8. C16
(DVR) -OUT	SD-19. CN-7. C17	
DER-OUT	SD-19. CN-6. A18	
-UP-OUT	WP-27. CN-2. A13	
-UP-OUT	WP-27. CN-2. A12	
M (DVR) -OUT	SD-19. CN-6. A12	
-Y-OUT	SD-20. CN-8. C15	
_IP-OUT	SD-20. CN-8. C27	
M (DSK) -OUT	SD-20. CN-9. A12	

CN6
SD19

	A		C	
SD-20. CN-8. C1	GND (O)	1	GND (O)	SY-138. CN-4. A1
SD-20. CN-8. C2	GND (A)	2	GND (A)	SY-138. CN-4. A2
		3		
SD-20. CN-8. C4	+9V	4	+9V	WP-27. CN-2. A4
SD-20. CN-8. C5	+5V (O)	5	+5V (O)	SY-138. CN-4. A5
SD-20. CN-8. C6	-9V	6	-9V	SY-138. CN-4. A6
		7		
SD-20. CN-8. A8	SY-138. CN-4. A8	SHORT SENSE (-)	8	SHORT SENSE (+)	SY-138. CN-4. C8	SD-20. CN-8. C8
	SY-138. CN-4. C23	BKGD LUM-IN	9	SOURCE EXT (DSK) OO -OUT	SD-20. CN-8. A23
	SY-138. CN-4. C22	BKGD R-Y-IN	10	GND (SOURCE EXT DSK)	SD-20. CN-8. C23
	SY-138. CN-4. A23	BKGD B-Y-IN	11	FILL EXT-VIDEO (DSK) OO -OUT	
	SY-138. CN-4. C29	MATTE LUM (DVR) -IN	12	GND (FILL EXT-VIDEO DSK)	
	SY-138. CN-4. A26	MATTE R-Y (DVR) -IN	13	TRNS TS OO -IN	WP-27. CN-2. C29
	SY-138. CN-4. A29	MATTE B-Y (DVR) -IN	14	GND (TRNS TS)	WP-27. CN-2. A29
	SY-138. CN-4. C20	MATTE LUM (UND) -IN	15	TRNS TG OO -IN	WP-27. CN-2. C28
	SY-138. CN-4. C19	MATTE R-Y (UND) -IN	16	GND (TRNS TG)	WP-27. CN-2. A28
	SY-138. CN-4. A20	MATTE B-Y (UND) -IN	17	PST PTN PG OO -IN	WP-27. CN-2. C31
	SY-138. CN-4. C26	FTB-FADER-IN	18	GND (PST PTN PG)	WP-27. CN-2. A31
SD-20. CN-8. C17	SY-138. CN-4. A32	GND (DC)	19	PST PTN PS OO -IN	WP-27. CN-2. C32
	EF-20. CN-10. C14	BKGD Y OO -OUT	20	GND (PST PTN PS)	WP-27. CN-2. A32
	EF-20. CN-14. C14	BKGD B-Y OO -OUT	21	PST PTN BORDER OO -OUT	EF-20. CN-10. C22
	EF-20. CN-12. C14	BKGD R-Y OO -OUT	22	GND (PST PTN BORDER)	EF-20. CN-10. C23
	EF-20. CN-10. C15	GND (BKGD)	23	GEN LOCK OO -OUT	SD-20. CN-9. C19
	EF-20. CN-10. A23	MATTE Y (DVR) OO -OUT	24	GND (GEN LOCK)	SD-20. CN-9. C20
	EF-20. CN-14. A23	MATTE B-Y (DVR) OO -OUT	25	INT CLAMP -IN	SD-20. CN-9. A22
	EF-20. CN-12. A23	MATTE R-Y (DVR) OO -OUT	26	KEY OVER-IN	SY-138. CN-5. A1	EF-20. CN-11. A19
	EF-20. CN-10. A24	GND (MATTE-DVR)	27	KEY BUS (UND) OO -IN	EF-20. CN-10. C18
	EF-20. CN-10. C16	MATTE Y (UND) OO -OUT	28	GND (KEY BUS-UND)	EF-20. CN-10. C19
	EF-20. CN-14. C16	MATTE B-Y (UND) OO -OUT	29	FTB BLK OO -OUT	EF-20. CN-10. C31
	EF-20. CN-12. C16	MATTE R-Y (UND) OO -OUT	30	GND (FTB BLK)	EF-20. CN-10. C32
	EF-20. CN-10. C17	GND (MATTE-UND)	31	SET UP CONT	SD-20. CN-9. C1
	SD-20. CN-9. C32	GND (SC-1)	32	SC-1 OO -IN	SD-20. CN-9. C31

CN8
SD20

	A		C	
	GND (O)	1	GND (O)	SD-19. CN-6. A1
EF-20. CN-10. C2	GND (A)	2	GND (A)	SD-19. CN-6. A2
		3		
EF-20. CN-10. C4	+9V	4	+9V	SD-19. CN-6. A4
	+5V (O)	5	+5V (O)	SD-19. CN-6. A5
EF-20. CN-10. C6	-9V	6	-9V	SD-19. CN-6. A6
		7		
EF-20. CN-10. A8	SD-19. CN-6. A8	SHORT SENSE (-)	8	SHORT SENSE (+)	SD-19. CN-6. C8	EF-20. CN-10. C8
			9		
	SY-138. CN-4. A12	CRK R/R-Y OO -IN	10	CRK GAIN	SY-138. CN-4. C12
	SY-138. CN-4. A13	GND (CRK G/Y)	11	CRK G/Y OO -IN	SY-138. CN-4. C13
	SY-138. CN-4. A14	CRK B/B-Y OO -IN	12	CRK CLIP	SY-138. CN-4. C14
	SD-19. CN-7. A26	GND (CHROMA KEY)	13	CHROMA KEY OO -OUT	SD-19. CN-7. A25
			14		
	SY-138. CN-4. A30	CRK R-Y-IN	15	CRK B-Y-IN	SY-138. CN-4. C30
		KEY-CLIP (UND) -IN	16	KEY-CLIP (UND) -IN	SY-138. CN-4. C24
		GND (DC)	17	GND (DC)	SD-19. CN-6. A19
			18		
	SD-19. CN-7. C21	GND (KEY MASK)	19	KEY MASK OO -IN	SD-19. CN-7. C22
			20		
	EF-20. CN-10. A26	GND (DSK KEY BUS)	21	DSK KEY BUS OO -IN	EF-20. CN-10. A25
			22		
	SD-19. CN-6. C9	SOURCE EXT (DSK) OO -IN	23	GND (SOURCE EXT-DSK)	SD-19. CN-6. C10
			24	DSK-GAIN-IN	SY-138. CN-4. C11
	SY-138. CN-4. A21	DSK MATTE R-Y-IN	25	DSK MATTE B-Y-IN	SY-138. CN-4. C21
	SY-138. CN-4. A22	DSK MATTE LUM-IN	26		
	SY-138. CN-4. A31	DSK-FADER-IN	27	DSK-CLIP-IN	SY-138. CN-4. C31
	HN-138. CN-20. 1	FILL EXT-VIDEO Y (DSK) OO -IN	28	GND (FILL EXT-VIDEO Y-DSK)	HN-138. CN-20. 2
			29		
	HN-138. CN-20. 4	GND (FILL EXT-VIDEO R-Y DSK)	30	FILL EXT-VIDEO R-Y (DSK) OO -IN	HN-138. CN-20. 3
			31		
	HN-138. CN-20. 5	FILL EXT-VIDEO B-Y (DSK) OO -IN	32	GND (FILL EXT-VIDEO R-Y DSK)	HN-138. CN-20. 6

CN35

1	FILL EXT-VIDEO Y (DSK) OO -IN	HN-138. CN-20. 1
2	GND (FILL EXT-VIDEO Y-DSK)	HN-138. CN-20. 2
3	FILL EXT-VIDEO R-Y (DSK) OO -IN	HN-138. CN-20. 3
4	GND (FILL EXT-VIDEO R-Y DSK)	HN-138. CN-20. 4
5	FILL EXT-VIDEO B-Y (DSK) OO -IN	HN-138. CN-20. 5
6	GND (FILL EXT-VIDEO B-Y DSK)	HN-138. CN-20. 6

C		
?) -IN	SD-20. CN-9. C25	WP-27. CN-3. A5
ENCY-IN	POWER. CN-1. 49	
21 (UND) -OUT	SD-19. CN-7. A28	
20 (DVR) -OUT	SD-19. CN-7. A32	
22 (DVR) -OUT	SD-19. CN-7. A30	
SK (UND) -OUT	SD-19. CN-7. C25	
1 (DVR) -OUT	EF-20. CN-11. A10	
W-OUT	SD-19. CN-7. C12	
(DSK) -OUT	SD-20. CN-9. C13	
-21-OUT	WP-27. CN-3. A29	
-20-OUT	WP-27. CN-3. A30	
-22-OUT	WP-27. CN-3. A31	
SK (DVR) -OUT	SD-19. CN-7. C23	
T-OUT	WP-27. CN-3. A22	
WIPE-OUT	WP-27. CN-3. C21	
S (DSK) -OUT	SD-20. CN-9. C14	
EO (DSK) -OUT	SD-20. CN-9. C15	
W (DSK) -OUT	SD-20. CN-9. C16	
H (DSK) -OUT	SD-20. CN-9. C17	
YNC-IN	EF-20. CN-11. A17	
T 20-OUT	SD-19. CN-7. C32	
T 22-OUT	SD-19. CN-7. C30	
T 24-OUT	SD-19. CN-7. C28	
3 (DVR) -OUT	EF-20. CN-11. A12	
1 (UND) -OUT	EF-20. CN-11. C23	
5 (UND) -OUT	EF-20. CN-11. C25	
21 (UND) -OUT	EF-20. CN-11. A14	
21 (DVR) -OUT	EF-20. CN-11. A16	
21-OUT	EF-20. CN-11. A2	
23-OUT	EF-20. CN-11. A4	
21-OUT	EF-20. CN-11. A6	
23-OUT	EF-20. CN-11. A8	

CN7
SD19

	A		C	
SD-20. CN-9. A28	NARROW BLK-IN	1	KEY BUS (DVR) OO -IN	EF-20. CN-10. A21
SD-20. CN-9. C27	L-ALT-IN	2	GND (KEY BUS-DVR)	EF-20. CN-10. A22
EF-20. CN-11. C2	PGM CONT-1 OO -OUT	3	B. F (P) -IN	SD-20. CN-9. C29
EF-20. CN-11. C3	GND (PGM CONT-1)	4	BLK (P) -IN	SD-20. CN-9. C24	WP-27. CN-3. A6
EF-20. CN-11. C4	PGM CONT-2 OO -OUT	5	SYNC (P) -IN	SD-20. CN-9. C26
EF-20. CN-11. C5	GND (PGM CONT-2)	6	B. B OO -OUT	EF-20. CN-10. A16
EF-20. CN-11. C6	PGM CONT-3 OO -OUT	7	GND (B. B.)	EF-20. CN-10. A17
EF-20. CN-11. C7	GND (PGM CONT-3)	8	BLACK OO -OUT	EF-20. CN-10. C12
EF-20. CN-11. C8	PGM CONT-4 OO -OUT	9	GND (BLACK)	EF-20. CN-10. C13
EF-20. CN-11. C9	GND (PGM CONT-4)	10	PST PTN (UND) OO -OUT	EF-20. CN-11. A22
EF-20. CN-11. C10	PGM CONT-5 OO -OUT	11	PST PTN (DVR) OO -OUT	EF-20. CN-11. A23
EF-20. CN-11. C11	GND (PGM CONT-5)	12	WP PVW-IN	SY-138. CN-5. C8
EF-20. CN-11. C12	PST CONT-1 OO -OUT	13	PRESET BORDER-IN	SY-138. CN-5. A21	EF-20. CN-11. C27
EF-20. CN-11. C13	GND (PST CONT-1)	14	KEY-GAIN (UND) -IN	SY-138. CN-4. A24
EF-20. CN-11. C14	PST CONT-2 OO -OUT	15	KEY CLIP (UND) -IN	SY-138. CN-4. C24
EF-20. CN-11. C15	GND (PST CONT-2)	16	KEY GAIN (DVR) -IN	SY-138. CN-4. A25
EF-20. CN-11. C16	PST CONT-3 OO -OUT	17	KEY-CLIP (DVR) -IN	SY-138. CN-4. C25
EF-20. CN-11. C17	GND (PST CONT-3)	18	WIPE BORDER (UNV/OFF	WP-27. CN-3. C2
EF-20. CN-11. C18	PST CONT-4 OO -OUT	19	FTB (R-Y/B-Y)	EF-20C. CN-12. C31
EF-20. CN-11. C19	GND (PST CONT-4)	20	FADE TO B/W CONT	SY-138. CN-4. A11
EF-20. CN-11. C20	PST CONT-5 OO -OUT	21	GND (KEY MASK)	WP-27. CN-2. C20	SD-20. CN-8. A19
EF-20. CN-11. C21	GND (PST CONT-5)	22	KEY MASK OO -IN	WP-27. CN-2. C21	SD-20. CN-8. C19
SY-138. CN-5. A14	KEY INVERT (DVR) -IN	23	KEY EXT MASK (DVR) -IN	SY-138. CN-5. C13
SY-138. CN-5. A6	KEY INVERT (UND) -IN	24	KEY MASK-ON (DVR) -IN	SY-138. CN-5. A13
SD-20. CN-8. C13	CHROMA KEY OO -IN	25	KEY EXT MASK (UND) -IN	SY-138. CN-5. C6
SD-20. CN-8. A13	GND (CHROMA KEY)	26	KEY MASK-ON (UND) -IN	SY-138. CN-5. A7
SY-138. CN-5. A4	KEY SOURCE 21 (UND) -IN	27	COMPONENT-IN	SD-20. CN-9. C12
SY-138. CN-5. C3	KEY SOURCE 21 (UND) -IN	28	EFF CONT 24-IN	SY-138. CN-5. C23
SY-138. CN-5. A3	KEY SOURCE 20 (UND) -IN	29	EFF CONT 23-IN	SY-138. CN-5. A23
SY-138. CN-5. C5	KEY SOURCE 22 (DVR) -IN	30	EFF CONT 22-IN	SY-138. CN-5. C22
SY-138. CN-5. A5	KEY SOURCE 21 (DVR) -IN	31	EFF CONT 21-IN	SY-138. CN-5. A22
SY-138. CN-5. C4	KEY SOURCE 20 (DVR) -IN	32	EFF CONT 20-IN	SY-138. CN-5. C21

CN9
SD20

	A		C	
SY-138. CN-4. A9	DSK KEY-IN	1	SET UP CONT	SD-19. CN-6. C31
		2		
EF-20. CN-10. C26	DSK KEY-PVW OO -OUT	3	GND (DSK KEY-PVW)	EF-20. CN-10. C27
		4		
EF-20. CN-10. C25	GND (DSK KEY-PGM)	5	DSK KEY-PGM OO -OUT	EF-20. CN-10. C24
		6		
EF-20. CN-10. C20	DSK FILL Y OO -OUT	7	GND (DSK FILL Y)	EF-20. CN-10. C21
		8		
EF-20. CN-12. C21	GND (DSK FILL R-Y)	9	DSK FILL R-Y OO -OUT	EF-20. CN-12. C20
		10		
EF-20. CN-14. C20	DSK FILL B-Y OO -OUT	11	GND (DSK FILL B-Y)	EF-20. CN-14. C21
SY-138. CN-4. C32	BORDER-LUM (DSK) -IN	12	COMPONENT-IN	SD-19. CN-7. C27
SY-138. CN-5. A9	KEY INVERT (DSK) -IN	13	KEY MASK (DSK) -IN	SY-138. CN-5. C9
SY-138. CN-5. A16	SOURCE KEY-BUS (DSK) -IN	14	SOURCE EXT (DSK) -IN	SY-138. CN-5. C16
SY-138. CN-5. A17	FILL DSK-MATTE (DSK) -IN	15	FILL EXT-VIDEO (DSK) -IN	SY-138. CN-5. C17
SY-138. CN-5. A18	OUT-LINE (DSK) -IN	16	DROP-SHADOW (DSK) -IN	SY-138. CN-5. C18
SY-138. CN-5. A19	BORDER-LINE (DSK) -IN	17	LINE (2H/4H (DSK) -IN	SY-138. CN5-C19
EF-20. CN-11. A18	SY-138. CN-5. A20	DSK-PVW (DSK) -IN	18	GND (GEN LOCK)	
			19	GEN LOCK OO -IN	SD-19. CN-6. C23
			20	GND (GEN LOCK)	SD-19. CN-6. C24
			21	HD (P) -OUT	WP-27. CN-3. C4
EF-20. CN-10. C29	SD-19. CN-6. C25	INT CLAMP-OUT	22	HD OO -OUT	WP-27. CN-3. A4
		GND (B. B. -EVE)	23	VD OO -OUT	WP-27. CN-3. C5
		B. B (EVE) OO -OUT	24	BLK (P) -OUT	SD-19. CN-7. C4
		GND (B. B. -EVE)	25	VD (P) -OUT	SY-138. CN-5. C1
			26	SYNC (P) -OUT	SD-19. CN-7. C5
			27	L-ALT-OUT	SD-19. CN-7. A2
WP-27. CN-3. C7	SD-19. CN-7. A1	NARROW BLK-OUT	28	(C. F. (P) -OUT)	
			29	B. F. (P) -OUT	SD-19. CN-7. C3
		GND (SC-2)	30	GND (SC-1)	
		SC-2 OO -OUT	31	SC-1 OO -OUT	SD-19. CN-6. C32
		GND (SC-2)	32	GND (SC-1)	SD-19. CN-6. A32

CN37

1	BLK (P) -OUT	HN-138. CN-16. 6
2	SYNC (P) -OUT	HN-138. CN-16. 4
3	L-ALT-OUT	HN-138. CN-16. 5
4	B. F. (P) -OUT	HN-138. CN-16. 3
5	GND (SC-2)	HN-138. CN-16. 2
6	SC	HN-138. CN-16. 1
7	GND (SC-2)	HN-138. CN-16. 2
8	COMPONENT-IN	HN-138. CN-16. 7
9	INT CLAMP-OUT	HN-138. CN-16. 8
10	NARROW BLK-OUT	HN-138. CN-16. 9

CN36

1	B. B (EVE) OO -OUT	HN-138. CN-30. 1
2	GND (B. B. -EVE)	HN-138. CN-30. 2

HN-105 (1/2)
1-631-554-11
BVS-3200C/3200CP

HN-105 (2/2) MOTHER BOARD

1

2

3

4

5

6

CN20

HN-138.CN-11.1	1	VIDEO IN 1
HN-138.CN-11.2	2	VIDEO IN 1 (G)
HN-138.CN-12.1	3	VIDEO IN 2
HN-138.CN-12.2	4	VIDEO IN 2 (G)
HN-138.CN-13.1	5	VIDEO IN 3
HN-138.CN-13.2	6	VIDEO IN 3 (G)
HN-138.CN-14.1	7	VIDEO IN 4
HN-138.CN-14.2	8	VIDEO IN 4 (G)
HN-138.CN-15.1	9	VIDEO IN 5
HN-138.CN-15.2	10	VIDEO IN 5 (G)

CN21

HN-138.CN-24.1	1	VIDEO IN 6
HN-138.CN-24.2	2	VIDEO IN 6 (G)
HN-138.CN-26.1	3	VIDEO IN 7
HN-138.CN-26.2	4	VIDEO IN 7 (G)
HN-138.CN-28.1	5	VIDEO IN 8
HN-138.CN-28.2	6	VIDEO IN 8 (G)

CN22

HN-138.CN-32.1	1	PGM OUT 1
HN-138.CN-32.2	2	PGM OUT 1 (G)
HN-138.CN-17.5	3	PGM OUT 3
HN-138.CN-17.6	4	PGM OUT 3 (G)

CN23

HN-138.CN-30.3	1	KEY BUS OUT
HN-138.CN-30.4	2	KEY BUS OUT (G)
	3	EXT VIDEO 1 (G)
HN-138.CN-39.1	4	EXT VIDEO 1
HN-138.CN-39.2	5	EXT VIDEO 1 (G)
HN-138.CN-19.1	6	EXT VIDEO 2
HN-138.CN-19.2	7	EXT VIDEO 2 (G)

CN24

HN-138.CN-34.1	1	PGM OUT 2
HN-138.CN-34.2	2	PGM OUT 2 (G)
	3	
HN-138.CN-18.6	4	PST OUT (G)
HN-138.CN-18.5	5	PST OUT

CN29

HN-138.CN-34.3	1	PGM OUT 2 R-Y
HN-138.CN-34.4	2	PGM OUT 2 R-Y (G)
	3	
HN-138.CN-18.4	4	PST OUT R-Y (G)
HN-138.CN-18.3	5	PST OUT R-Y

CN16
EF20 (Y)

A		C
VIDEO IN 1 (G)	1	VIDEO IN 1 (G)
VIDEO IN 1 (G)	2	VIDEO IN 1
VIDEO IN 1 (G)	3	VIDEO IN 1 (G)
VIDEO IN 2 (G)	4	VIDEO IN 2
VIDEO IN 2 (G)	5	VIDEO IN 2 (G)
VIDEO IN 3 (G)	6	VIDEO IN 3
VIDEO IN 3 (G)	7	VIDEO IN 3 (G)
VIDEO IN 4 (G)	8	VIDEO IN 4
VIDEO IN 4 (G)	9	VIDEO IN 4 (G)
VIDEO IN 5 (G)	10	VIDEO IN 5
VIDEO IN 5 (G)	11	VIDEO IN 5 (G)
VIDEO IN 6 (G)	12	VIDEO IN 6
VIDEO IN 6 (G)	13	VIDEO IN 6 (G)
VIDEO IN 7 (G)	14	VIDEO IN 7
VIDEO IN 7 (G)	15	VIDEO IN 7 (G)
VIDEO IN 8 (G)	16	VIDEO IN 8
VIDEO IN 8 (G)	17	VIDEO IN 8 (G)
	18	
PGM OUT 2	19	PGM OUT 1
PGM OUT 2 (G)	20	PGM OUT 1 (G)
	21	PGM OUT 3
PST OUT (G)	22	PGM OUT 3 (G)
PST OUT	23	PST OUT (G)
PST OUT (G)	24	PST OUT (G)
KEY BUS OUT (G)	25	KEY BUS OUT
KEY BUS OUT (G)	26	KEY BUS OUT (G)
EXT VIDEO 1 (G)	27	EXT VIDEO 1 (G)
EXT VIDEO 1 (G)	28	EXT VIDEO 1
EXT VIDEO 1 (G)	29	EXT VIDEO 1 (G)
EXT VIDEO 2 (G)	30	EXT VIDEO 2
EXT VIDEO 2 (G)	31	EXT VIDEO 2 (G)
	32	

CN17
EF20 (R-Y)

A		C
VIDEO IN 1 R-Y (G)	1	VIDEO IN 1 R-Y (G)
VIDEO IN 1 R-Y (G)	2	VIDEO IN 1 R-Y
VIDEO IN 1 R-Y (G)	3	VIDEO IN 1 R-Y (G)
VIDEO IN 2 R-Y (G)	4	VIDEO IN 2 R-Y
VIDEO IN 2 R-Y (G)	5	VIDEO IN 2 R-Y (G)
VIDEO IN 3 R-Y (G)	6	VIDEO IN 3 R-Y
VIDEO IN 3 R-Y (G)	7	VIDEO IN 3 R-Y (G)
VIDEO IN 4 R-Y (G)	8	VIDEO IN 4 R-Y
VIDEO IN 4 R-Y (G)	9	VIDEO IN 4 R-Y (G)
VIDEO IN 5 R-Y (G)	10	VIDEO IN 5 R-Y
VIDEO IN 5 R-Y (G)	11	VIDEO IN 5 R-Y (G)
VIDEO IN 6 R-Y (G)	12	VIDEO IN 6 R-Y
VIDEO IN 6 R-Y (G)	13	VIDEO IN 6 R-Y (G)
VIDEO IN 7 R-Y (G)	14	VIDEO IN 7 R-Y
VIDEO IN 7 R-Y (G)	15	VIDEO IN 7 R-Y (G)
VIDEO IN 8 R-Y (G)	16	VIDEO IN 8 R-Y
VIDEO IN 8 R-Y (G)	17	VIDEO IN 8 R-Y (G)
	18	
PGM OUT 2 R-Y	19	PGM OUT 1 R-Y
PGM OUT 2 R-Y (G)	20	PGM OUT 1 R-Y (G)
	21	PGM OUT 3 R-Y
PST OUT R-Y (G)	22	PGM OUT 3 R-Y (G)
PST OUT R-Y	23	PST OUT R-Y (G)
PST OUT R-Y (G)	24	PST OUT R-Y (G)
KEY BUS OUT R-Y (G)	25	KEY BUS OUT R-Y
KEY BUS OUT R-Y (G)	26	KEY BUS OUT R-Y (G)
EXT VIDEO 1 R-Y (G)	27	EXT VIDEO 1 R-Y (G)
EXT VIDEO 1 R-Y (G)	28	EXT VIDEO 1 R-Y
EXT VIDEO 1 R-Y (G)	29	EXT VIDEO 1 R-Y (G)
EXT VIDEO 2 R-Y (G)	30	EXR VIDEO 2 R-Y
EXT VIDEO 2 R-Y (G)	31	EXT VIDEO 2 R-Y (G)
	32	

CN10
EF20 (Y)

	A		C		
POWER.CN-1.33	GND (+5-A)	1	GND (+5-A)		
EF-20.CN-12.C2	GND (A)	2	GND (A)	SD-20.CN-8.A2	
		3			
EF-20.CN-12.C4	+9V	4	+9V	SD-20.CN-8.A4	
POWER.CN-1.39	+5V (A)	5	+5V (A)		
EF-20.CN-12.C6	-9V	6	-9V	SD-20.CN-8.A6	
		7			
EF-20.CN-12.A8	SD-20.CN-8.A8	SHORT SENSE (-)	8	SHORT SENSE (+)	SD-20.CN-8.C8	EF-20.CN-12.C8
			9			
			10			
			11			
		GND (BLACK)	12	BLACK 00 -IN	SD-19.CN-7.C8	
		GND (BLACK)	13	GND (BLACK)	SD-19.CN-7.C9	
		GND (BKGD Y)	14	BKGD Y 00 -IN	SD-19.CN-6.A20	
EF-20.CN-12.C15		GND (BKGD Y)	15	GND (BKGD Y)	SD-19.CN-6.A23	
SD-19.CN-7.C6		B.B 00 -IN	16	MATTE Y (UND) 00 -IN	SD-19.CN-6.A28	
SD-19.CN-7.C7		GND (B.B.)	17	GND (MATTE Y-UND)	SD-19.CN-6.A31	EF-20.CN-12.C17
		GND (KEY BUS-UND)	18	KEY BUS (UND) 00 -OUT	SD-19.CN-6.C27	
		GND (KEY BUS-UND)	19	GND (KEY BUS-UND)	SD-19.CN-6.C28	
		GND (KEY BUS-OVR)	20	DSK FILL Y 00 -IN	SD-20.CN-9.A7	
SD-19.CN-7.C1		KEY BUS (OVR) 00 -OUT	21	GND (DSK FILL Y)	SD-20.CN-9.C7	
SD-19.CN-7.C2		GND (KEY BUS-OVR)	22	PST PTN BORDER 00 -IN	SD-19.CN-6.C21	EF-20.CN-12.C22
SD-20.CN-6.A24		MATTE Y (OVR) 00 -IN	23	GND (PST PTN BORDER)	SD-19.CN-6.C22	EF-20.CN-12.C23
EF-20.CN-12.A24	SD-19.CN-6.A27	GND (MATTE Y-OVR)	24	DSK KEY-PGM 00 -IN	SD-20.CN-9.C5	EF-20.CN-12.C24
SD-20.CN-8.C21		DSK KEY BUS 00 -OUT	25	GND (DSK KEY-PGM)	SD-20.CN-9.A5	EF-20.CN-12.C25
SD-20.CN-8.A21		GND (DSK KEY BUS)	26	DSK KEY-PVW 00 -IN	SD-20.CN-9.A3	EF-20.CN-12.C26
			27	GND (DSK KEY-PVW)	SD-20.CN-9.C3	EF-20.CN-12.C27
			28			
			29	INT CLAMP-IN	SD-20.CN-9.A22	EF-20.CN-12.C29
			30			
			31	FTB BLK 00 -IN	SD-19.CN-6.C29	
			32	GND (FTB BLK)	SD-19.CN-6.C30	

CN12
EF20 (R-Y)

	A		C	
EF-20.CN-14.C1	GND (+5V-A)	1	GND (+5V-A)	EF-20.CN-10.A1
EF-20.CN-14.C2	GND (A)	2	GND (A)	EF-20.CN-10.A2
		3		
EF-20.CN-14.C4	+9V	4	+9V	EF-20.CN-10.A4
EF-20.CN-14.C5	+5V (A)	5	+5V (A)	EF-20.CN-10.A5
EF-20.CN-14.C6	-9V	6	-9V	EF-20.CN-10.A6
		7		
EF-20.CN-14.A8	EF-20.CN-10.A8	SHORT SENSE (-)	8	SHORT SENSE (+)	EF-20.CN-10.C8	EF-20.CN-14.C8
			9			
			10			
			11			
		GND (BLACK)	12	BLACK 00 -IN		
		GND (BLACK)	13	GND (BLACK)		
		GND (BKGD R-Y)	14	BKGD R-Y 00 -IN	SD-19.CN-6.A22	
EF-20.CN-14.C15		GND (BKGD R-Y)	15	GND (BKGD R-Y)	EF-20.CN-10.A15	
		B.B 00 -IN	16	MATTE R-Y (UND) 00 -IN	SD-19.CN-6.A30	
		GND (B.B.)	17	GND (MATTE R-Y UND)	EF-20.CN-10.C17	EF-20.CN-14.C17
			18			
			19			
			20	DSK FILL R-Y 00 -IN	SD-20.CN-9.C9	
			21	GND (DSK FILL R-Y)	SD-20.CN-9.A9	
			22	PST PTN BORDER 00 -IN	EF-20.CN-10.C22	EF-20.CN-14.C22
	SD-19.CN-6.A26	MATTE R-Y (OVR) 00 -IN	23	GND (PST PTN BORDER)	EF-20.CN-10.C23	EF-20.CN-14.C23
EF-20.CN-14.A24	EF-20.CN-10.A24	GND (MATTE R-Y OVR)	24	DSK KEY-PGM 00 -IN	EF-20.CN-10.C24	EF-20.CN-14.C24
			25	GND (DSK KEY-PGM)	EF-20.CN-10.C25	EF-20.CN-14.C25
			26	DSK KEY-PVW 00 -IN	EF-20.CN-10.C26	EF-20.CN-14.C26
			27	GND (DSK KEY-PVW)	EF-20.CN-10.C27	EF-20.CN-14.C27
			28			
			29	INT CLAMP-IN	EF-20.CN-10.C29	EF-20.CN-14.C29
			30			
			31	FTB (R-Y/B-Y)	SD-19.CN-7.C19	
			32	GND (FTB BLK)	EF-20.CN-14.C32	

CN11
EF20 (Y)

		A		C		
EF-20.CN-13.A1	SY-138.CN-5.A29	PGM BUS 2^0-IN	1			
EF-20.CN-13.A2	SY-138.CN-5.C29	PGM BUS 2^1-IN	2	PGM CONT-1 00 -IN	SD-19.CN-7.A3	EF-20.CN-13.C2
EF-20.CN-13.A3	SY-138.CN-5.A30	PGM BUS 2^2-IN	3	GND (PGM CONT-1)	SD-19.CN-7.A4	EF-20.CN-13.C3
EF-20.CN-13.A4	SY-138.CN-5.C30	PGM BUS 2^3-IN	4	PGM CONT-2 00 -IN	SD-19.CN-7.A5	EF-20.CN-13.C4
EF-20.CN-13.A5	SY-138.CN-5.A31	PST BUS 2^0-IN	5	GND (PGM CONT-2)	SD-19.CN-7.A6	EF-20.CN-13.C5
EF-20.CN-13.A6	SY-138.CN-5.C31	PST BUS 2^1-IN	6	PGM CONT-3 00 -IN	SD-19.CN-7.A7	EF-20.CN-13.C6
EF-20.CN-13.A7	SY-138.CN-5.A32	PST BUS 2^2-IN	7	GND (PGM CONT-3)	SD-19.CN-7.A8	EF-20.CN-13.C7
EF-20.CN-13.A8	SY-138.CN-5.C32	PST BUS 2^3-IN	8	PGM CONT-4 00 -IN	SD-19.CN-7.A9	EF-20.CN-13.C8
EF-20.CN-13.A9	SY-138.CN-5.A2	KEY BUS 2^0 (OVR) -IN	9	GND (PGM CONT-4)	SD-19.CN-7.A10	EF-20.CN-13.C9
EF-20.CN-13.A10	SY-138.CN-5.C7	KEY BUS 2^1 (OVR) -IN	10	PGM CONT-5 00 -IN	SD-19.CN-7.A11	EF-20.CN-13.C10
EF-20.CN-13.A11	SY-138.CN-5.A24	KEY BUS 2^2 (OVR) -IN	11	GND (PGM CONT-5)	SD-19.CN-7.A12	EF-20.CN-13.C11
EF-20.CN-13.A12	SY-138.CN-5.C24	KEY BUS 2^3 (OVR) -IN	12	PST CONT-1 00 -IN	SD-19.CN-7.A13	EF-20.CN-13.C12
EF-20.CN-13.A13	SY-138.CN-5.A27	KEY FILL 2^0 (UND) -IN	13	GND (PST CONT-1)	SD-19.CN-7.A14	EF-20.CN-13.C13
EF-20.CN-13.A14	SY-138.CN-5.C27	KEY FILL 2^1 (UND) -IN	14	PST CONT-2 00 -IN	SD-19.CN-7.A15	EF-20.CN-13.C14
EF-20.CN-13.A15	SY-138.CN-5.A28	KEY FILL 2^2 (OVR) -IN	15	GND (PST CONT-2)	SD-19.CN-7.A16	EF-20.CN-13.C15
EF-20.CN-13.A16	SY-138.CN-5.C28	KEY FILL 2^1 (OVR) -IN	16	PST CONT-3 00 -IN	SD-19.CN-7.A17	EF-20.CN-13.C16
	SY138.CN-5.C20	NON-SYNC-OUT	17	GND (PST CONT-3)	SD-19.CN-7.A18	EF-20.CN-13.C17
EF-20.CN-13.A18	SD-20.CN-9.A18	DSK-PVW (DSK) -IN	18	PST CONT-4 00 -IN	SD-19.CN-7.A19	EF-20.CN-13.C18
EF-20.CN-13.A19	SD-19.CN-6.C26	KEY OVER-IN	19	GND (PST CONT-4)	SD-19.CN-7.A20	EF-20.CN-13.C19
			20	PST CONT-5 00 -IN	SD-19.CN-7.A21	EF-20.CN-13.C20
			21	GND (PST CONT-5)	SD-19.CN-7.A22	EF-20.CN-13.C21
EF-20.CN-13.A22	SD-19.CN-7.C10	PST PTN (UND) -IN	22	KEY BUS 2^0 (UND) -IN	SY-138.CN-5.A25	EF-20.CN-13.C22
EF-20.CN-13.A23	SD-19.CN-7.C11	PST PTN (OVR) -IN	23	KEY BUS 2^1 (UND) -IN	SY-138.CN-5.C25	EF-20.CN-13.C23
			24	KEY BUS 2^2 (UND) -IN	SY-138.CN-5.A26	EF-20.CN-13.C24
			25	KEY BUS 2^3 (UND) -IN	SY-138.CN-5.C26	EF-20.CN-13.C25
			26			
			27	PRESET BORDER-IN	SD-19.CN-7.C13	
			28	UNDER KEY CONT	SY-138.CN-4.A15	EF-20.CN-13.C28
			29	OVER KEY CONT	SY-138.CN-5.A15	EF-20.CN-13.C29
			30			
			31			
			32	EFF CODE CONT	SY-138.CN-4.C15	EF-20.CN-13.C32

CN13
EF20 (R-Y)

		A		C		
EF-20.CN-15.A1	EF-20.CN-11.A1	PGM BUS 2^0-IN	1			
EF-20.CN-15.A2	EF-20.CN-11.A2	PGM BUS 2^1-IN	2	PGM CONT-1 00 -IN	EF-20.CN-11.C2	EF-20.CN-15.C2
EF-20.CN-15.A3	EF-20.CN-11.A3	PGM BUS 2^2-IN	3	GND (PGM CONT-1)	EF-20.CN-11.C3	EF-20.CN-15.C3
EF-20.CN-15.A4	EF-20.CN-11.A4	PGM BUS 2^3-IN	4	PGM CONT-2 00 -IN	EF-20.CN-11.C4	EF-20.CN-15.C4
EF-20.CN-15.A5	EF-20.CN-11.A5	PST BUS 2^0-IN	5	GND (PGM CONT-2)	EF-20.CN-11.C5	EF-20.CN-15.C5
EF-20.CN-15.A6	EF-20.CN-11.A6	PST BUS 2^1-IN	6	PGM CONT-3 00 -IN	EF-20.CN-11.C6	EF-20.CN-15.C6
EF-20.CN-15.A7	EF-20.CN-11.A7	PST BUS 2^2-IN	7	GND (PGM CONT-3)	EF-20.CN-11.C7	EF-20.CN-15.C7
EF-20.CN-15.A8	EF-20.CN-11.A8	PST BUS 2^3-IN	8	PGM CONT-4 00 -IN	EF-20.CN-11.C8	EF-20.CN-15.C8
EF-20.CN-15.A9	EF-20.CN-11.A9	KEY BUS 2^0 (OVR) -IN	9	GND (PGM CONT-4)	EF-20.CN-11.C9	EF-20.CN-15.C9
EF-20.CN-15.A10	EF-20.CN-11.A10	KEY BUS 2^1 (OVR) -IN	10	PGM CONT-5 00 -IN	EF-20.CN-11.C10	EF-20.CN-15.C10
EF-20.CN-15.A11	EF-20.CN-11.A11	KEY BUS 2^2 (OVR) -IN	11	GND (PGM CONT-5)	EF-20.CN-11.C11	EF-20.CN-15.C11
EF-20.CN-15.A12	EF-20.CN-11.A12	KEY BUS 2^3 (OVR) -IN	12	PST CONT-1 00 -IN	EF-20.CN-11.C12	EF-20.CN-15.C12
EF-20.CN-15.A13	EF-20.CN-11.A13	KEY FILL 2^0 (UND) -IN	13	GND (PST CONT-1)	EF-20.CN-11.C13	EF-20.CN-15.C13
EF-20.CN-15.A14	EF-20.CN-11.A14	KEY FILL 2^1 (UND) -IN	14	PST CONT-2 00 -IN	EF-20.CN-11.C14	EF-20.CN-15.C14
EF-20.CN-15.A15	EF-20.CN-11.A15	KEY FILL 2^2 (OVR) -IN	15	GND (PST CONT-2)	EF-20.CN-11.C15	EF-20.CN-15.C15
EF-20.CN-17.A16	EF-20.CN-11.A16	KEY FILL 2^1 (OVR) -IN	16	PST CONT-3 00 -IN	EF-20.CN-11.C16	EF-20.CN-15.C16
			17	GND (PST CONT-3)	EF-20.CN-11.C17	EF-20.CN-15.C17
EF-20.CN-15.A18	EF-20.CN-11.A18	DSK-PVW (DSK) IN	18	PST CONT-4 00 -IN	EF-20.CN-11.C18	EF-20.CN-15.C18
EF-20.CN-15.A19	EF-20.CN-11.A19	KEY OVER-IN	19	GND (PST CONT-4)	EF-20.CN-11.C19	EF-20.CN-15.C19
			20	PST CONT-5 00 -IN	EF-20.CN-11.C20	EF-20.CN-15.C20
			21	GND (PST CONT-5)	EF-20.CN-11.C21	EF-20.CN-15.C21
EF-20.CN-15.A22	EF-20.CN-11.A22	PST PTN (UND) -IN	22	KEY BUS 2^0 (UND) -IN	EF-20.CN-11.C22	EF-20.CN-15.C22
EF-20.CN-15.A23	EF-20.CN-11.A23	PST PTN (OVER) -IN	23	KEY BUS 2^1 (UND) -IN	EF-20.CN-11.C23	EF-20.CN-15.C23
			24	KEY BUS 2^2 (UND) -IN	EF-20.CN-11.C24	EF-20.CN-15.C24
			25	KEY BUS 2^3 (UND) -IN	EF-20.CN-11.C25	EF-20.CN-15.C25
			26			
			27	PRESET BORDER-IN	EF-20.CN-11.C27	EF-20.CN-15.C27
			28	UNDER KEY CONT	EF-20.CN-11.C28	EF-20.CN-15.C28
			29	OVER KEY CONT	EF-20.CN-11.C29	EF-20.CN-15.C29
			30			
			31			
			32	EFF CODE CONT	EF-20.CN-11.C32	EF-20.CN-15.C32

A B C D E F G

CN16
EF20 (Y)

A		C
(G)	1	VIDEO IN 1 (G)
(G)	2	VIDEO IN 1
(G)	3	VIDEO IN 1 (G)
(G)	4	VIDEO IN 2
(G)	5	VIDEO IN 2 (G)
(G)	6	VIDEO IN 3
(G)	7	VIDEO IN 3 (G)
(G)	8	VIDEO IN 4
(G)	9	VIDEO IN 4 (G)
(G)	10	VIDEO IN 5
(G)	11	VIDEO IN 5 (G)
(G)	12	VIDEO IN 6
(G)	13	VIDEO IN 6 (G)
(G)	14	VIDEO IN 7
(G)	15	VIDEO IN 7 (G)
(G)	16	VIDEO IN 8
(G)	17	VIDEO IN 8 (G)
	18	
2	19	PGM OUT 1
(G)	20	PGM OUT 1 (G)
	21	PGM OUT 3
)	22	PGM OUT 3 (G)
	23	PST OUT (G)
)	24	PST OUT (G)
(G)	25	KEY BUS OUT
(G)	26	KEY BUS OUT (G)
(G)	27	EXT VIDEO 1 (G)
(G)	28	EXT VIDEO 1
(G)	29	EXT VIDEO 1 (G)
(G)	30	EXT VIDEO 2
(G)	31	EXT VIDEO 2 (G)
	32	

CN17
EF20 (R-Y)

A		C
VIDEO IN 1 R-Y (G)	1	VIDEO IN 1 R-Y (G)
VIDEO IN 1 R-Y (G)	2	VIDEO IN 1 R-Y
VIDEO IN 1 R-Y (G)	3	VIDEO IN 1 R-Y (G)
VIDEO IN 2 R-Y (G)	4	VIDEO IN 2 R-Y
VIDEO IN 2 R-Y (G)	5	VIDEO IN 2 R-Y (G)
VIDEO IN 3 R-Y (G)	6	VIDEO IN 3 R-Y
VIDEO IN 3 R-Y (G)	7	VIDEO IN 3 R-Y (G)
VIDEO IN 4 R-Y (G)	8	VIDEO IN 4 R-Y
VIDEO IN 4 R-Y (G)	9	VIDEO IN 4 R-Y (G)
VIDEO IN 5 R-Y (G)	10	VIDEO IN 5 R-Y
VIDEO IN 5 R-Y (G)	11	VIDEO IN 5 R-Y (G)
VIDEO IN 6 R-Y (G)	12	VIDEO IN 6 R-Y
VIDEO IN 6 R-Y (G)	13	VIDEO IN 6 R-Y (G)
VIDEO IN 7 R-Y (G)	14	VIDEO IN 7 R-Y
VIDEO IN 7 R-Y (G)	15	VIDEO IN 7 R-Y (G)
VIDEO IN 8 R-Y (G)	16	VIDEO IN 8 R-Y
VIDEO IN 8 R-Y (G)	17	VIDEO IN 8 R-Y (G)
	18	
PGM OUT 2 R-Y	19	PGM OUT 1 R-Y
PGM OUT 2 R-Y (G)	20	PGM OUT 1 R-Y (G)
	21	PGM OUT 3 R-Y
PST OUT R-Y (G)	22	PGM OUT 3 R-Y (G)
PST OUT R-Y	23	PST OUT R-Y (G)
PST OUT R-Y (G)	24	PST OUT R-Y (G)
KEY BUS OUT R-Y (G)	25	KEY BUS OUT R-Y
KEY BUS OUT R-Y (G)	26	KEY BUS OUT R-Y (G)
EXT VIDEO 1 R-Y (G)	27	EXT VIDEO 1 R-Y (G)
EXT VIDEO 1 R-Y (G)	28	EXT VIDEO 1 R-Y
EXT VIDEO 1 R-Y (G)	29	EXT VIDEO 1 R-Y (G)
EXT VIDEO 2 R-Y (G)	30	EXR VIDEO 2 R-Y
EXT VIDEO 2 R-Y (G)	31	EXT VIDEO 2 R-Y (G)
	32	

CN18
EF20 (B-Y)

A		C
VIDEO IN 1 B-Y (G)	1	VIDEO IN 1 B-Y (G)
VIDEO IN 1 B-Y (G)	2	VIDEO IN 1 B-Y
VIDEO IN 1 B-Y (G)	3	VIDEO IN 1 B-Y (G)
VIDEO IN 2 B-Y (G)	4	VIDEO IN 2 B-Y
VIDEO IN 2 B-Y (G)	5	VIDEO IN 2 B-Y (G)
VIDEO IN 3 B-Y (G)	6	VIDEO IN 3 B-Y
VIDEO IN 3 B-Y (G)	7	VIDEO IN 3 B-Y (G)
VIDEO IN 4 B-Y (G)	8	VIDEO IN 4 B-Y
VIDEO IN 4 B-Y (G)	9	VIDEO IN 4 B-Y (G)
VIDEO IN 5 B-Y (G)	10	VIDEO IN 5 B-Y
VIDEO IN 5 B-Y (G)	11	VIDEO IN 5 B-Y (G)
VIDEO IN 6 B-Y (G)	12	VIDEO IN 6 B-Y
VIDEO IN 6 B-Y (G)	13	VIDEO IN 6 B-Y (G)
VIDEO IN 7 B-Y (G)	14	VIDEO IN 7 B-Y
VIDEO IN 7 B-Y (G)	15	VIDEO IN 7 B-Y (G)
VIDEO IN 8 B-Y (G)	16	VIDEO IN 8 B-Y
VIDEO IN 8 B-Y (G)	17	VIDEO IN 8 B-Y (G)
	18	
PGM OUT 2 B-Y	19	PGM OUT 1 B-Y
PGM OUT 2 B-Y (G)	20	PGM OUT 1 B-Y (G)
	21	PGM OUT 3 B-Y
PST OUT B-Y (G)	22	PGM OUT 3 B-Y (G)
PST OUT B-Y	23	PST OUT B-Y (G)
PST OUT B-Y (G)	24	PST OUT B-Y (G)
KEY BUS OUT B-Y (G)	25	KEY BUS OUT B-Y
KEY BUS OUT B-Y (G)	26	KEY BUS OUT B-Y (G)
EXT VIDEO 1 B-Y (G)	27	EXT VIDEO 1 B-Y (G)
EXT VIDEO 1 B-Y (G)	28	EXT VIDEO 1 B-Y
EXT VIDEO 1 B-Y (G)	29	EXT VIDEO 1 B-Y (G)
EXT VIDEO 2 B-Y (G)	30	EXT VIDEO 2 B-Y
EXT VIDEO 2 B-Y (G)	31	EXT VIDEO 2 B-Y (G)
	32	

CN25

VIDEO IN 1 R-Y	1	HN-138. CN-11. 1
VIDEO IN 1 R-Y (G)	2	HN-138. CN-11. 2
VIDEO IN 2 R-Y	3	HN-138. CN-12. 1
VIDEO IN 2 R-Y (G)	4	HN-138. CN-12. 2
VIDEO IN 3 R-Y	5	HN-138. CN-13. 1
VIDEO IN 3 R-Y (G)	6	HN-138. CN-13. 2
VIDEO IN 4 R-Y	7	HN-138. CN-14. 1
VIDEO IN 4 R-Y (G)	8	HN-138. CN-14. 2
VIDEO IN 5 R-Y	9	HN-138. CN-15. 1
VIDEO IN 5 R-Y (G)	10	HN-138. CN-15. 2

CN26

VIDEO IN 6 R-Y	1	HN-138. CN-24. 3
VIDEO IN 6 R-Y (G)	2	HN-138. CN-24. 2
VIDEO IN 7 R-Y	3	HN-138. CN-26. 3
VIDEO IN 7 R-Y (G)	4	HN-138. CN-26. 4
VIDEO IN 8 R-Y	5	HN-138. CN-28. 3
VIDEO IN 8 R-Y (G)	6	HN-138. CN-28. 4

CN27

PGM OUT 1 R-Y	1	HN-138. CN-32. 3
PGM OUT 1 R-Y (G)	2	HN-138. CN-32. 4
PGM OUT 3 R-Y	3	HN-138. CN-17. 3
PGM OUT 3 R-Y (G)	4	HN-138. CN-17. 4

CN28

KEY BUS OUT R-Y	1	HN-138. CN-30. 5
KEY BUS OUT R-Y (G)	2	HN-138. CN-30. 6
EXT VIDEO 1 R-Y (G)	3	
EXT VIDEO 1 R-Y	4	HN-138. CN-39. 3
EXT VIDEO 1 R-Y (G)	5	HN-138. CN-39. 4
EXT VIDEO 2 R-Y	6	HN-138. CN-19. 3
EXT VIDEO 2 R-Y (G)	7	HN-138. CN-19. 4

CN30

VIDEO IN 1 B-Y	1	HN-138. CN-11. 5
VIDEO IN 1 B-Y (G)	2	HN0138. CN-11. 6
VIDEO IN 2 B-Y	3	HN-138. CN-12. 5
VIDEO IN 2 B-Y (G)	4	HN-138. CN-12. 6
VIDEO IN 3 B-Y	5	HN-138. CN-13. 5
VIDEO IN 3 B-Y (G)	6	HN-138. CN-13. 6
VIDEO IN 4 B-Y	7	HN-138. CN-14. 5
VIDEO IN 4 B-Y (G)	8	HN-138. CN-14. 6
VIDEO IN 5 B-Y	9	HN-138. CN-15. 5
VIDEO IN 5 B-Y (G)	10	HN-138. CN-15. 6

CN31

VIDEO IN 6 B-Y	1	HN-138. CN-24. 5
VIDEO IN 6 B-Y (G)	2	HN-138. CN-24. 6
VIDEO IN 7 B-Y	3	HN-138. CN-26. 5
VIDEO IN 7 B-Y (G)	4	HN-138. CN-26. 6
VIDEO IN 8 B-Y	5	HN-138. CN-28. 5
VIDEO IN 8 B-Y (G)	6	HN-138. CN-28. 6

CN32

PGM OUT 1 B-Y	1	HN-138. CN-32. 5
PGM OUT 1 B-Y (G)	2	HN-138. CN-32. 6
PGM OUT 3 B-Y	3	HN-138. CN-17. 1
PGM OUT 3 B-Y (G)	4	HN-138. CN-17. 2

CN33

KEY BUS OUT B-Y	1	HN-138. CN-30. 7
KEY BUS OUT B-Y (G)	2	HN-138. CN-30. 8
EXT VIDEO 1 B-Y (G)	3	
EXT VIDEO 1 B-Y	4	HN-138. CN-39. 5
EXT VIDEO 1 B-Y (G)	5	HN-138. CN-39. 6
EXT VIDEO 2 B-Y	6	HN-138. CN-19. 5
EXT VIDEO 2 B-Y (G)	7	HN-138. CN-19. 6

CN34

PGM OUT 2 B-Y	1	HN-138. CN-34. 5
PGM OUT 2 B-Y (G)	2	HN-138. CN-34. 6
	3	
PST OUT B-Y (G)	4	HN-138. CN-18. 2
PST OUT B-Y	5	HN-138. CN-18. 1

CN10
EF20 (Y)

A		C		
	1	GND (+5-A)		
	2	GND (A)	SD-20. CN-8. A2	
	3			
	4	+9V	SD-20. CN-8. A4	
	5	+5V (A)		
	6	-9V	SD-20. CN-8. A6	
	7			
(-)	8	SHORT SENSE (+)	SD-20. CN-8. C8	EF-20. CN-12. C8
	9			
	10			
	11			
O	12	BLACK (X) - IN	SD-19. CN-7. C8	
O	13	GND (BLACK)	SD-19. CN-7. C9	
Y)	14	BKGD Y (X) - IN	SD-19. CN-6. A20	
Y)	15	GND (BKGD Y)	SD-19. CN-6. A23	
N	16	MATTE Y (UND) (X) - IN	SD-19. CN-6. A28	
)	17	GND (MATTE Y-UND)	SD-19. CN-6. A31	EF-20. CN-12. C17
-UND)	18	KEY BUS (UND) (X) -OUT	SD-19. CN-6. C27	
-UND)	19	GND (KEY BUS-UND)	SD-19. CN-6. C28	
-OVR)	20	DSK FILL Y (X) - IN	SD-20. CN-9. A7	
X) -OUT	21	GND (DSK FILL Y)	SD-20. CN-9. C7	
-OVR)	22	PST PTN BORDER (X) - IN	SD-19. CN-6. C21	EF-20. CN-12. C22
(X) - IN	23	GND (PST PTN BORDER)	SD-19. CN-6. C22	EF-20. CN-12. C23
-OVR)	24	DSK KEY-PGM (X) - IN	SD-20. CN-9. C5	EF-20. CN-12. C24
O -OUT	25	GND (DSK KEY-PGM)	SD-20. CN-9. A5	EF-20. CN-12. C25
BUS)	26	DSK KEY-PVW (X) - IN	SD-20. CN-9. A3	EF-20. CN-12-C26
	27	GND (DSK KEY-PVW)	SD-20. CN-9. C3	EF-20. CN-12-C27
	28			
	29	INT CLAMP-IN	SD-20. CN-9. A22	EF-20. CN-12. C29
	30			
	31	FTB BLK (X) - IN	SD-19. CN-6. C29	
	32	GND (FTB BLK)	SD-19. CN-6. C30	

CN12
EF20 (R-Y)

		A		C		
	EF-20. CN-14. C1	GND (+5V-A)	1	GND (+5V-A)	EF-20. CN-10. A1	
	EF-20. CN-14. C2	GND (A)	2	GND (A)	EF-20. CN-10. A2	
			3			
	EF-20. CN-14. C4	+9V	4	+9V	EF-20. CN-10. A4	
	EF-20. CN-14. C5	+5V (A)	5	+5V (A)	EF-20. CN-10. A5	
	EF-20. CN-14. C6	-9V	6	-9V	EF-20. CN-10. A6	
			7			
EF-20. CN-14. A8	EF-20. CN-10. A8	SHORT SENSE (-)	8	SHORT SENSE (+)	EF-20. CN-10. C8	EF-20. CN-14. C8
			9			
			10			
			11			
		GND (BLACK)	12	BLACK (X) - IN		
		GND (BLACK)	13	GND (BLACK)		
		GND (BKGD R-Y)	14	BKGD R-Y (X) - IN	SD-19. CN-6. A22	
	EF-20. CN-14. C15	GND (BKGD R-Y)	15	GND (BKGD R-Y)	EF-20. CN-10. A15	
		B. B (X) - IN	16	MATTE R-Y (UND) (X) - IN	SD-19. CN-6. A30	
		GND (B. B.)	17	GND (MATTE R-Y UND)	EF-20. CN-10. C17	EF-20. CN-14. C17
			18			
			19			
			20	DSK FILL R-Y (X) - IN	SD-20. CN-9. C9	
			21	GND (DSK FILL R-Y)	SD-20. CN-9. A9	
			22	PST PTN BORDER (X) - IN	EF-20. CN-10. C22	EF-20. CN-14. C22
	SD-19. CN-6. A26	MATTE R-Y (OVR) (X) - IN	23	GND (PST PTN BORDER)	EF-20. CN-10. C23	EF-20. CN-14. C23
EF-20. CN-14. A24	EF-20. CN-10. A24	GND (MATTE R-Y OVR)	24	DSK KEY-PGM (X) - IN	EF-20. CN-10. C24	EF-20. CN-14. C24
			25	GND (DSK KEY-PGM)	EF-20. CN-10. C25	EF-20. CN-14. C25
			26	DSK KEY-PVW (X) - IN	EF-20. CN-10. C26	EF-20. CN-14. C26
			27	GND (DSK KEY-PVW)	EF-20. CN-10. C27	EF-20. CN-14. C27
			28			
			29	INT CLAMP-IN	EF-20. CN-10. C29	EF-20. CN-14. C29
			30			
			31	FTB (R-Y/B-Y)	SD-19. CN-7. C19	
			32	GND (FTB BLK)	EF-20. CN-14. C32	

CN14
EF20 (B-Y)

	A		C	
	GND (+5V-A)	1	GND (+5V-A)	EF-20. CN-12. A1
	GND (A)	2	GND (A)	EF-20. CN-12. A2
		3		
	+9V	4	+9V	EF-20. CN-12. A4
	+5V (A)	5	+5V (A)	EF-20. CN-12. A5
	-9V	6	-9V	EF-20. CN-12. A6
		7		
EF-20. CN-12. A8	SHORT SENSE (-)	8	SHORT SENSE (+)	EF-20. CN-12. C8
		9		
		10		
		11		
	GND (BLACK)	12	BLACK (X) - IN	
	GND (BLACK)	13	GND (BLACK)	
	GND (BKGD B-Y)	14	BKGD B-Y (X) - IN	SD-19. CN-6. A21
	GND (BKGD B-Y)	15	GND (BKGD B-Y)	EF-20. CN-12. A15
	B. B (X) - IN	16	MATTE B-Y (UND) (X) - IN	SD-19. CN-6. A29
	GND (B. B.)	17	GND (MATTE B-Y UND)	EF-20. CN-12. C17
		18		
		19		
		20	DSK FILL B-Y (X) - IN	SD-20. CN-9. A11
		21	GND (DSK FILL B-Y)	SD-20. CN-9. C11
		22	PST PTN BORDER (X) - IN	EF-20. CN-12. C22
SD-19. CN-6. A25	MATTE B-Y (OVR) (X) - IN	23	GND (PST PTN BORDER)	EF-20. CN-12. C23
EF-20. CN-12. A24	GND (MATTE B-Y OVR)	24	DSK KEY-PGM (X) - IN	EF-20. CN-12. C24
		25	GND (DSK KEY-PGM)	EF-20. CN-12. C25
		26	DSK KEY-PVW (X) - IN	EF-20. CN-12. C26
		27	GND (DSK KEY-PVW)	EF-20. CN-12. C27
		28		
		29	INT CLAMP-IN	EF-20. CN-12. C29
		30		
		31	FTB (R-Y/B-Y)	EF-20. CN-12. C31
		32	GND (FTB BLK)	EF-20. CN-12. C32

CN11
EF20 (Y)

A		C		
-IN	1			
-IN	2	PGM CONT-1 (X) - IN	SD-19. CN-7. A3	EF-20. CN-13. C2
-IN	3	GND (PGM CONT-1)	SD-19. CN-7. A4	EF-20. CN-13. C3
-IN	4	PGM CONT-2 (X) - IN	SD-19. CN-7. A5	EF-20. CN-13. C4
-IN	5	GND (PGM CONT-2)	SD-19. CN-7. A6	EF-20. CN-13. C5
-IN	6	PGM CONT-3 (X) - IN	SD-19. CN-7. A7	EF-20. CN-13. C6
-IN	7	GND (PGM CONT-3)	SD-19. CN-7. A8	EF-20. CN-13. C7
-IN	8	PGM CONT-4 (X) - IN	SD-19. CN-7. A9	EF-20. CN-13. C8
VR) - IN	9	GND (PGM CONT-4)	SD-19. CN-7. A10	EF-20. CN-13. C9
VR) - IN	10	PGM CONT-5 (X) - IN	SD-19. CN-7. A11	EF-20. CN-13. C10
VR) - IN	11	GND (PGM CONT-5)	SD-19. CN-7. A12	EF-20. CN-13. C11
VR) - IN	12	PST CONT-1 (X) - IN	SD-19. CN-7. A13	EF-20. CN-13. C12
ND) - IN	13	GND (PST CONT-1)	SD-19. CN-7. A14	EF-20. CN-13. C13
ND) - IN	14	PST CONT-2 (X) - IN	SD-19. CN-7. A15	EF-20. CN-13. C14
VR) - IN	15	GND (PST CONT-2)	SD-19. CN-7. A16	EF-20. CN-13. C15
VR) - IN	16	PST CONT-3 (X) - IN	SD-19. CN-7. A17	EF-20. CN-13. C16
-OUT	17	GND (PST CONT-3)	SD-19. CN-7. A18	EF-20. CN-13. C17
O - IN	18	PST CONT-4 (X) - IN	SD-19. CN-7. A19	EF-20. CN-13. C18
- IN	19	GND (PST CONT-4)	SD-19. CN-7. A20	EF-20. CN-13. C19
	20	PST CONT-5 (X) - IN	SD-19. CN-7. A21	EF-20. CN-13. C20
	21	GND (PST CONT-5)	SD-19. CN-7. A22	EF-20. CN-13. C21
) - IN	22	KEY BUS 2^0 (UND) - IN	SY-138. CN-5. A25	EF-20. CN-13. C22
0 - IN	23	KEY BUS 2^1 (UND) - IN	SY-138. CN-5. C25	EF-20. CN-13. C23
	24	KEY BUS 2^2 (UND) - IN	SY-138. CN-5. A26	EF-20. CN-13. C24
	25	KEY BUS 2^3 (UND) - IN	SY-138. CN-5. C26	EF-20. CN-13. C25
	26			
	27	PRESET BORDER-IN	SD-19. CN-7. C13	
	28	UNDER KEY CONT	SY-138. CN-4. A15	EF-20. CN-13. C28
	29	OVER KEY CONT	SY-138. CN-5. A15	EF-20. CN-13. C29
	30			
	31			
	32	EFF CODE CONT	SY-138. CN-4. C15	EF-20. CN-13. C32

CN13
EF20 (R-Y)

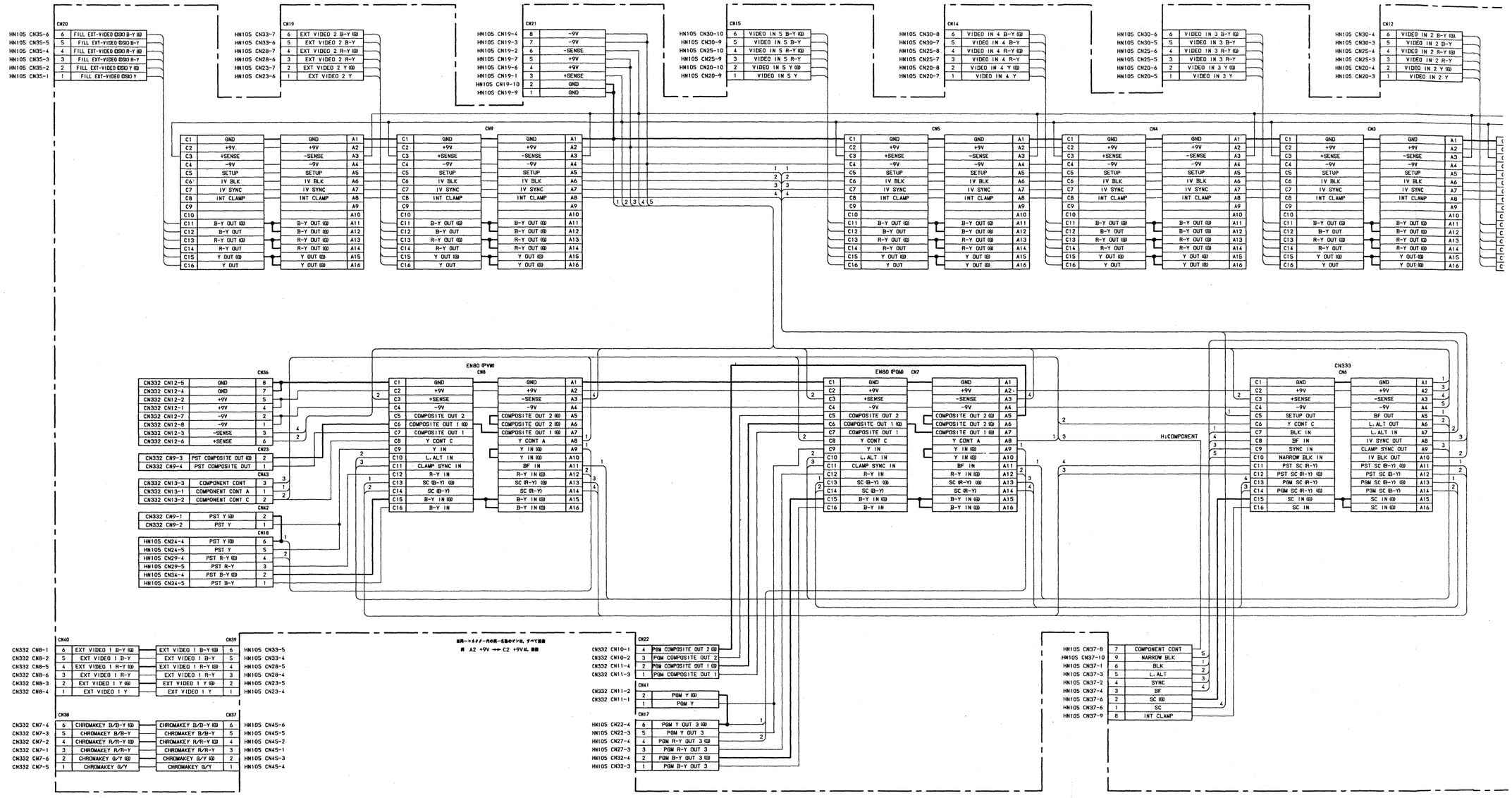
		A		C		
EF-20. CN-15. A1	EF-20. CN-11. A1	PGM BUS 2^0-IN	1			
EF-20. CN-15. A2	EF-20. CN-11. A2	PGM BUS 2^1-IN	2	PGM CONT-1 (X) - IN	EF-20. CN-11. C2	EF-20. CN-15. C2
EF-20. CN-15. A3	EF-20. CN-11. A3	PGM BUS 2^2-IN	3	GND (PGM CONT-1)	EF-20. CN-11. C3	EF-20. CN-15. C3
EF-20. CN-15. A4	EF-20. CN-11. A4	PGM BUS 2^3-IN	4	PGM CONT-2 (X) - IN	EF-20. CN-11. C4	EF-20. CN-15. C4
EF-20. CN-15. A5	EF-20. CN-11. A5	PST BUS 2^0-IN	5	GND (PGM CONT-2)	EF-20. CN-11. C5	EF-20. CN-15. C5
EF-20. CN-15. A6	EF-20. CN-11. A6	PST BUS 2^1-IN	6	PGM CONT-3 (X) - IN	EF-20. CN-11. C6	EF-20. CN-15. C6
EF-20. CN-15. A7	EF-20. CN-11. A7	PST BUS 2^2-IN	7	GND (PGM CONT-3)	EF-20. CN-11. C7	EF-20. CN-15. C7
EF-20. CN-15. A8	EF-20. CN-11. A8	PST BUS 2^3-IN	8	PGM CONT-4 (X) - IN	EF-20. CN-11. C8	EF-20. CN-15. C8
EF-20. CN-15. A9	EF-20. CN-11. A9	KEY BUS 2^0 (OVR) - IN	9	GND (PGM CONT-4)	EF-20. CN-11. C9	EF-20. CN-15. C9
EF-20. CN-15. A10	EF-20. CN-11. A10	KEY BUS 2^1 (OVR) - IN	10	PGM CONT-5 (X) - IN	EF-20. CN-11. C10	EF-20. CN-15. C10
EF-20. CN-15. A11	EF-20. CN-11. A11	KEY BUS 2^2 (OVR) - IN	11	GND (PGM CONT-5)	EF-20. CN-11. C11	EF-20. CN-15. C11
EF-20. CN-15. A12	EF-20. CN-11. A12	KEY BUS 2^3 (OVR) - IN	12	PST CONT-1 (X) - IN	EF-20. CN-11. C12	EF-20. CN-15. C12
EF-20. CN-15. A13	EF-20. CN-11. A13	KEY FILL 2^0 (UND) - IN	13	GND (PST CONT-1)	EF-20. CN-11. C13	EF-20. CN-15. C13
EF-20. CN-15. A14	EF-20. CN-11. A14	KEY FILL 2^1 (UND) - IN	14	PST CONT-2 (X) - IN	EF-20. CN-11. C14	EF-20. CN-15. C14
EF-20. CN-16. A15	EF-20. CN-11. A15	KEY FILL 2^0 (OVR) - IN	15	GND (PST CONT-2)	EF-20. CN-11. C15	EF-20. CN-15. C15
EF-20. CN-17. A16	EF-20. CN-11. A16	KEY FILL 2^1 (OVR) - IN	16	PST CONT-3 (X) - IN	EF-20. CN-11. C16	EF-20. CN-15. C16
			17	GND (PST CONT-3)	EF-20. CN-11. C17	EF-20. CN-15. C17
EF-20. CN-15. A18	EF-20. CN-11. A18	DSK-PVW (DSK) IN	18	PST CONT-4 (X) - IN	EF-20. CN-11. C18	EF-20. CN-15. C18
EF-20. CN-15. A19	EF-20. CN-11. A19	KEY OVER-IN	19	GND (PST CONT-4)	EF-20. CN-11. C19	EF-20. CN-15. C19
			20	PST CONT-5 (X) - IN	EF-20. CN-11. C20	EF-20. CN-15. C20
			21	GND (PST CONT-5)	EF-20. CN-11. C21	EF-20. CN-15. C21
EF-20. CN-15. A22	EF-20. CN-11. A22	PST PTN (UND) - IN	22	KEY BUS 2^0 (UND) - IN	EF-20. CN-11. C22	EF-20. CN-15. C22
EF-20. CN-15. A23	EF-20. CN-11. A23	PST PTN (OVER) - IN	23	KEY BUS 2^1 (UND) - IN	EF-20. CN-11. C23	EF-20. CN-15. C23
			24	KEY BUS 2^2 (UND) - IN	EF-20. CN-11. C24	EF-20. CN-15. C24
			25	KEY BUS 2^3 (UND) - IN	EF-20. CN-11. C25	EF-20. CN-15. C25
			26			
			27	PRESET BORDER-IN	EF-20. CN-11. C27	EF-20. CN-15. C27
			28	UNDER KEY CONT	EF-20. CN-11. C28	EF-20. CN-15. C28
			29	OVER KEY CONT	EF-20. CN-11. C29	EF-20. CN-15. C29
			30			
			31			
			32	EFF CODE CONT	EF-20. CN-11. C32	EF-20. CN-15. C32

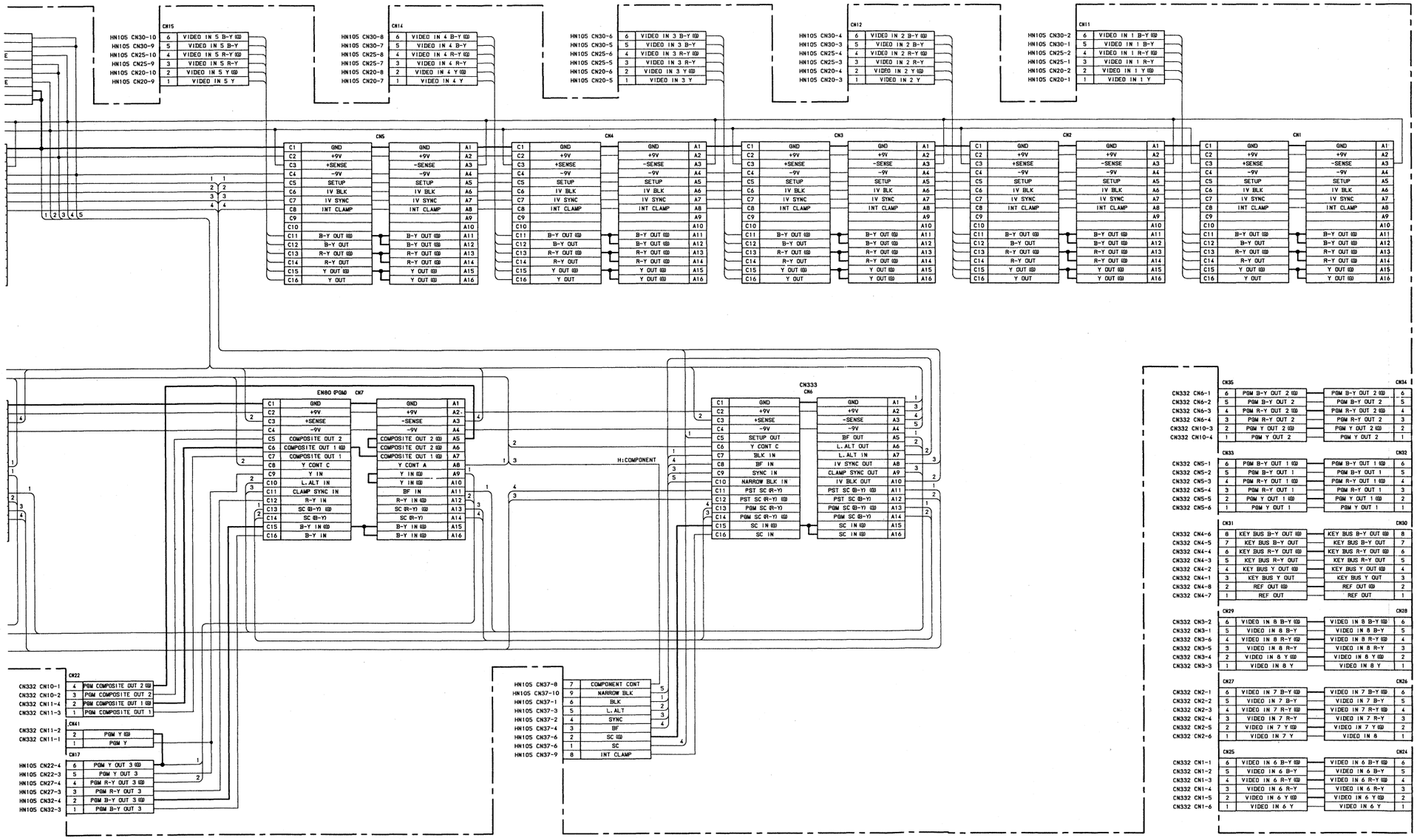
CN15
EF20 (B-Y)

	A		C	
EF-20. CN-13. A1	PGM BUS 2^0-IN	1		
EF-20. CN-13. A2	PGM BUS 2^1-IN	2	PGM CONT-1 (X) - IN	EF-20. CN-13. C2
EF-20. CN-13. A3	PGM BUS 2^2-IN	3	GND (PGM CONT-1)	EF-20. CN-13. C3
EF-20. CN-13. A4	PGM BUS 2^3-IN	4	PGM CONT-2 (X) - IN	EF-20. CN-13. C4
EF-20. CN-13. A5	PST BUS 2^0-IN	5	GND (PGM CONT-2)	EF-20. CN-13. C5
EF-20. CN-13. A6	PST BUS 2^1-IN	6	PGM CONT-3 (X) - IN	EF-20. CN-13. C6
EF-20. CN-13. A7	PST BUS 2^2-IN	7	GND (PGM CONT-3)	EF-20. CN-13. C7
EF-20. CN-13. A8	PST BUS 2^3-IN	8	PGM CONT-4 (X) - IN	EF-20. CN-13. C8
EF-20. CN-13. A9	KEY BUS 2^0 (OVR) - IN	9	GND (PGM CONT-4)	EF-20. CN-13. C9
EF-20. CN-13. A10	KEY BUS 2^1 (OVR) - IN	10	PGM CONT-5 (X) - IN	EF-20. CN-13. C10
EF-20. CN-13. A11	KEY BUS 2^2 (OVR) - IN	11	GND (PGM CONT-5)	EF-20. CN-13. C11
EF-20. CN-13. A12	KEY BUS 2^3 (OVR) - IN	12	PST CONT-1 (X) - IN	EF-20. CN-13. C12
EF-20. CN-13. A13	KEY FILL 2^0 (UND) - IN	13	GND (PST CONT-1)	EF-20. CN-13. C13
EF-20. CN-13. A14	KEY FILL 2^1 (UND) - IN	14	PST CONT-2 (X) - IN	EF-20. CN-13. C14
EF-20. CN-13. A15	KEY FILL 2^0 (OVR) - IN	15	GND (PST CONT-2)	EF-20. CN-13. C15
EF-20. CN-13. A16	KEY FILL 2^1 (OVR) - IN	16	PST CONT-3 (X) - IN	EF-20. CN-13. C16
		17	GND (PST CONT-3)	EF-20. CN-13. C17
EF-20. CN-13. A18	DSK-PVW (DSK) IN	18	PST CONT-4 (X) - IN	EF-20. CN-13. C18
EF-20. CN-13. A19	KEY OVER-IN	19	GND (PST CONT-4)	EF-20. CN-13. C19
		20	PST CONT-5 (X) - IN	EF-20. CN-13. C20
		21	GND (PST CONT-5)	EF-20. CN-13. C21
EF-20. CN-13. A22	PST PTN (UND) - IN	22	KEY BUS 2^0 (UND) - IN	EF-20. CN-13. C22
EF-20. CN-13. A23	PST PTN (OVR) - IN	23	KEY BUS 2^1 (UND) - IN	EF-20. CN-13. C23
		24	KEY BUS 2^2 (UND) - IN	EF-20. CN-13. C24
		25	KEY BUS 2^3 (UND) - IN	EF-20. CN-13. C25
		26		
		27	PRESET BORDER-IN	EF-20. CN-13. C27
		28	UNDER KEY	EF-20. CN-13. C28
		29	OVER KEY	EF-20. CN-13. C29
		30		
		31		
		32	EFF CODE CONT	EF-20. CN-13. C32

HN-105 (2/2)
1-631-554-11
BVS-3200C/3200CP

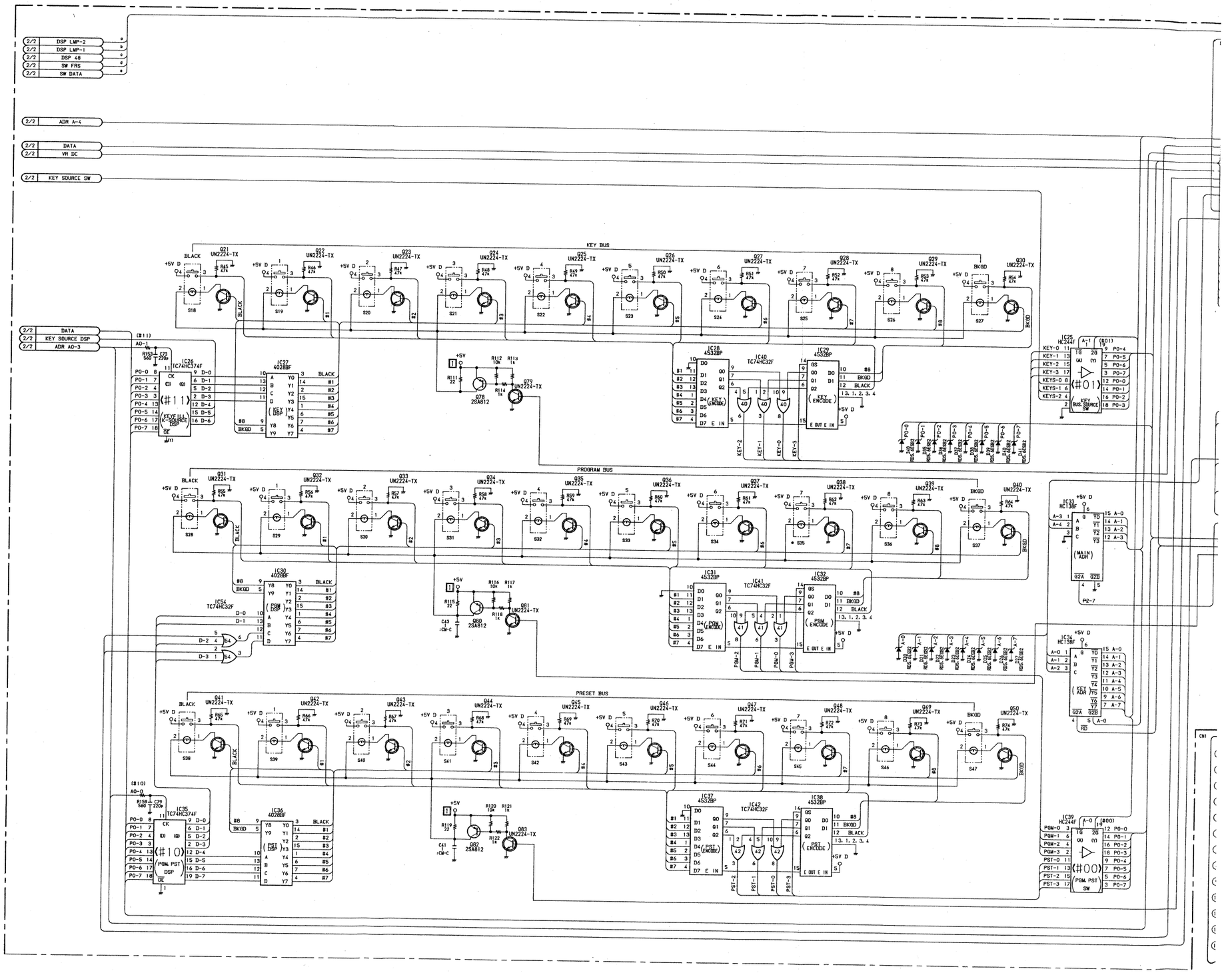
HN-138 MOTHER BOARD



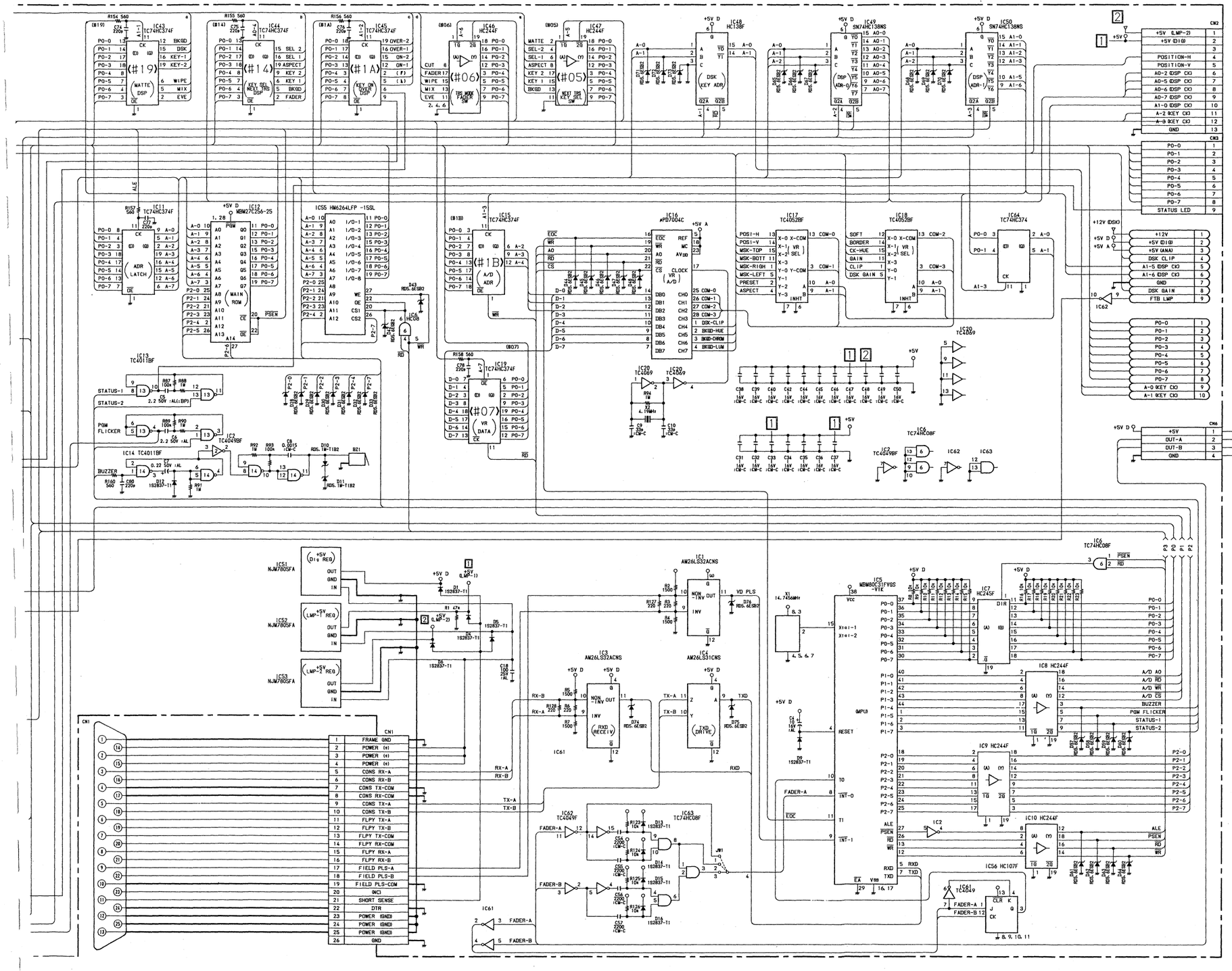


HN-138
1-631-555-11
BVS-3200C/3200CP

KY-155/155P (1/2) SWITCH BOARD



B-SYXI33-KYI55#1

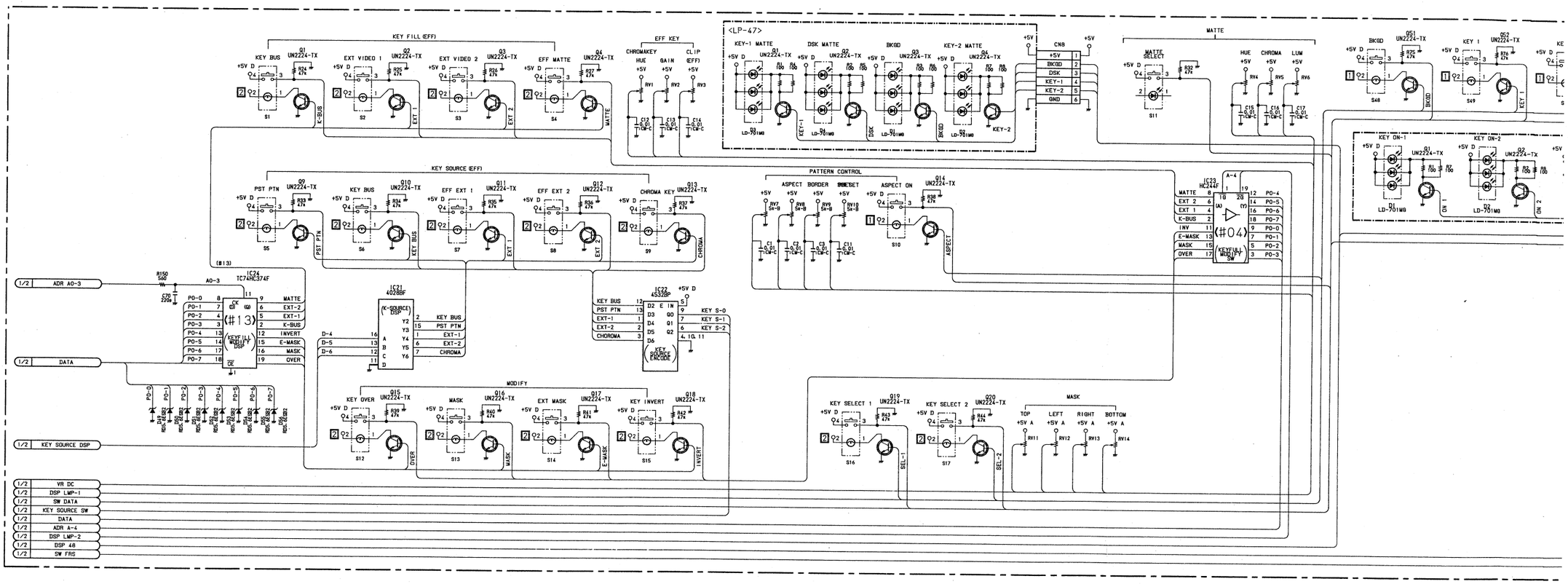


* A1
* A2
* A3
* A4
* A5
* A6

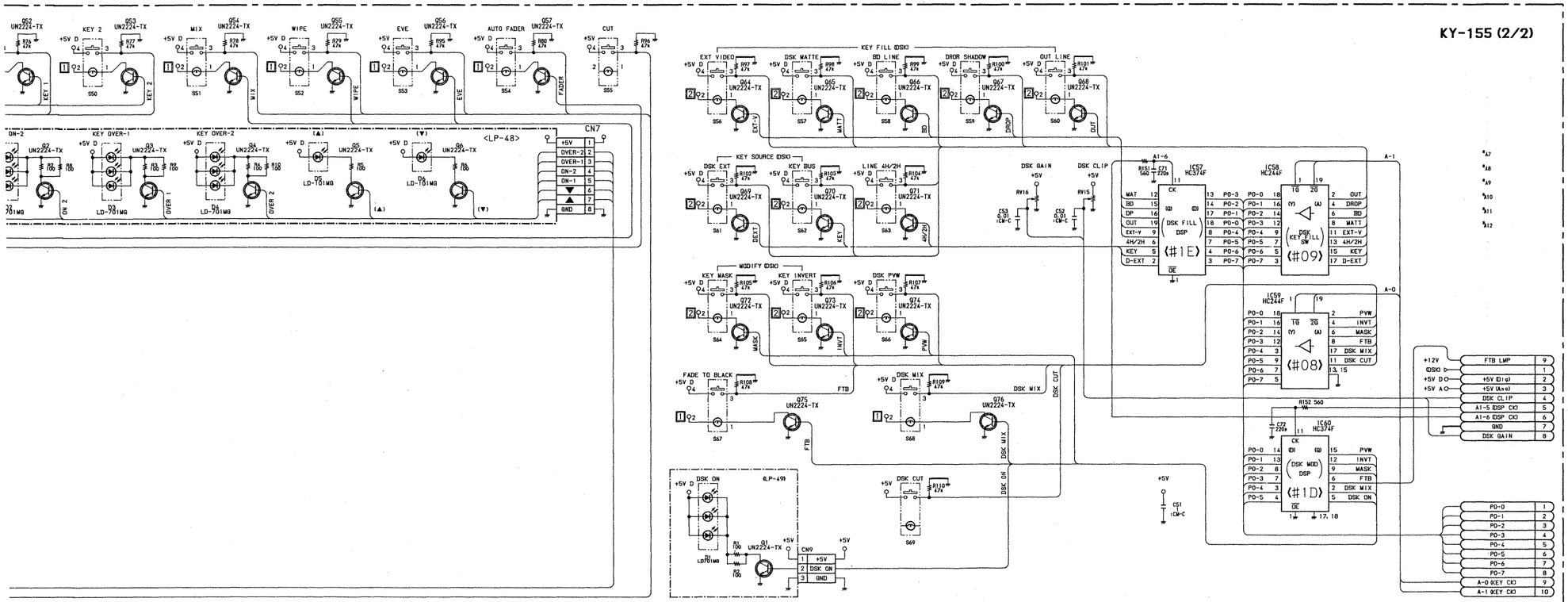
KY-155/155P (1/2)

1-631-548-11
BVS-3200/3200P
BVS-3200C/3200CP

KY-155/155P (2/2) SWITCH BOARD



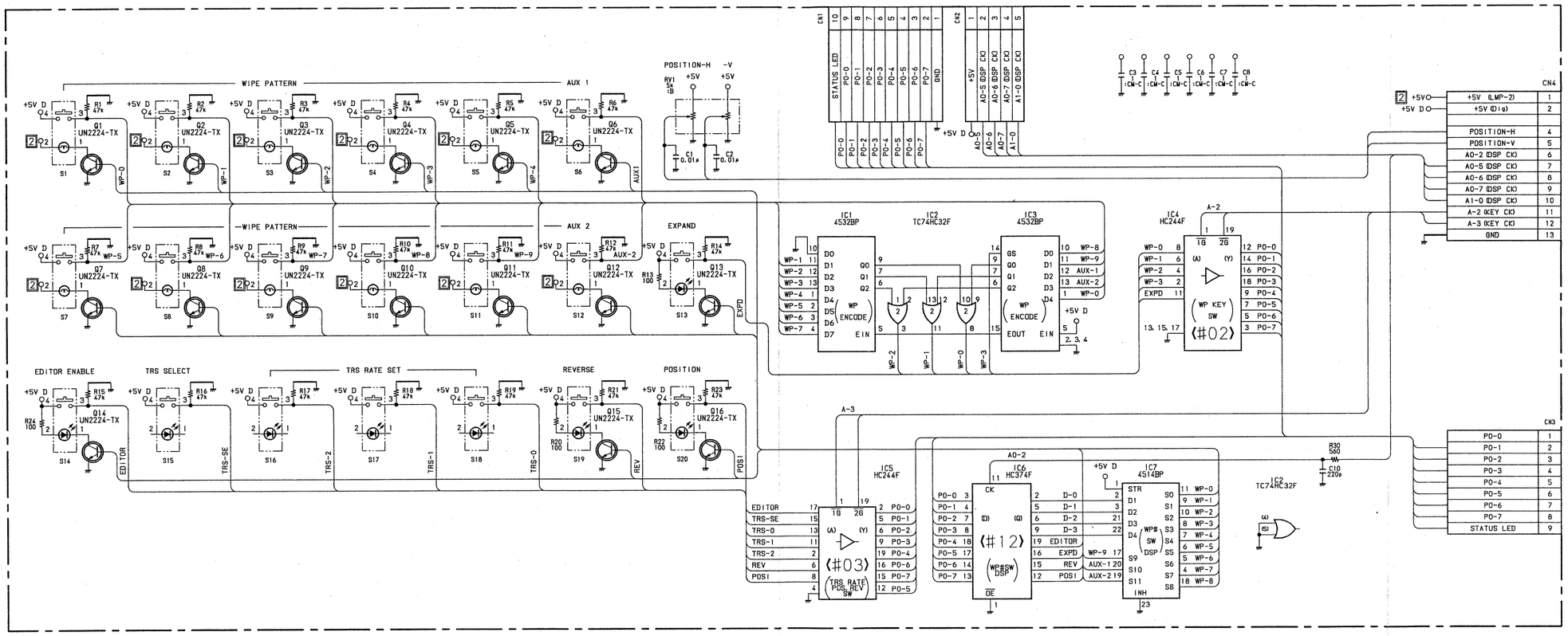
KY-155 (2/2)



KY-155/155P (2/2)

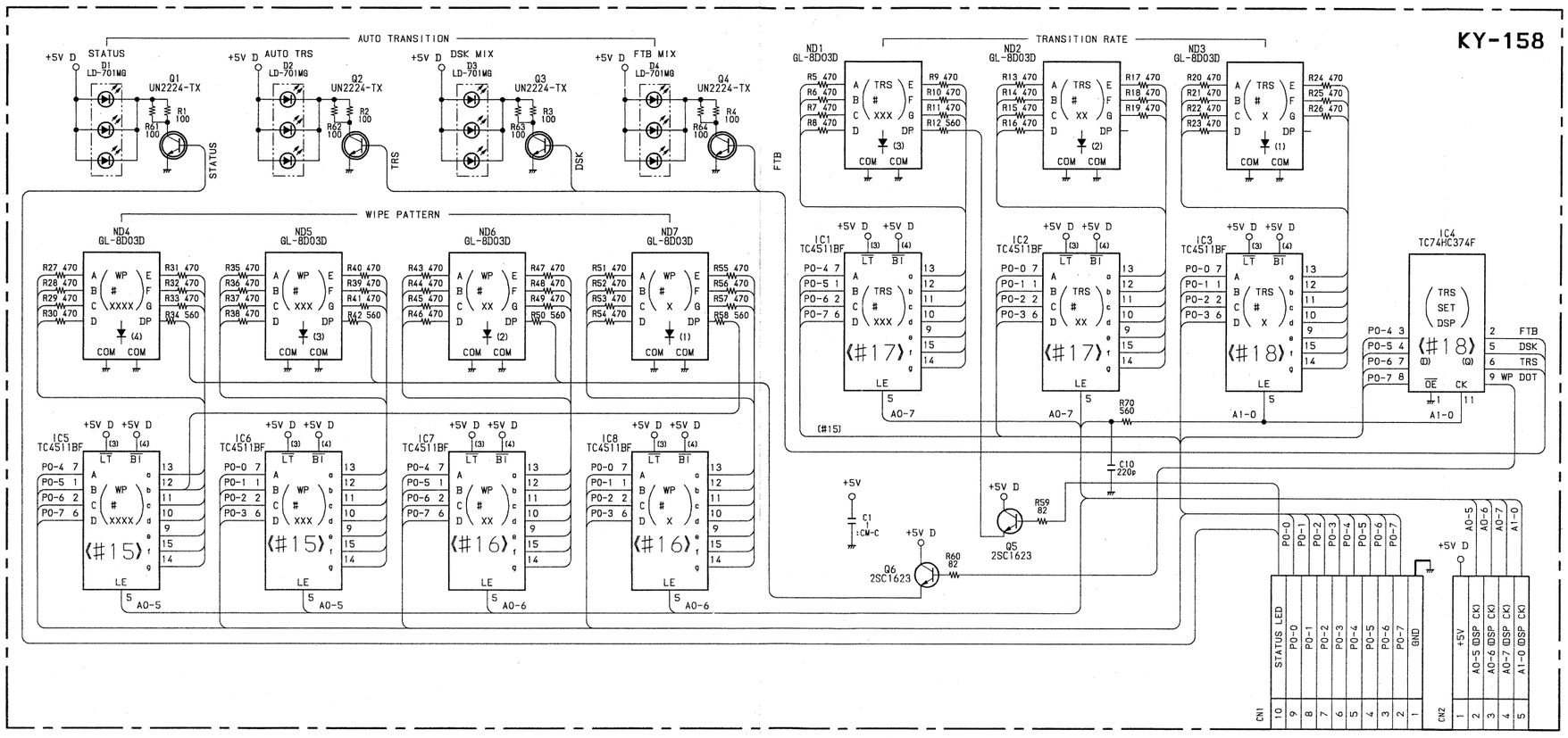
1-631-548-11
BVS-3200/3200P
BVS-3200C/3200CP

KY-157 SUB SWITCH BOARD



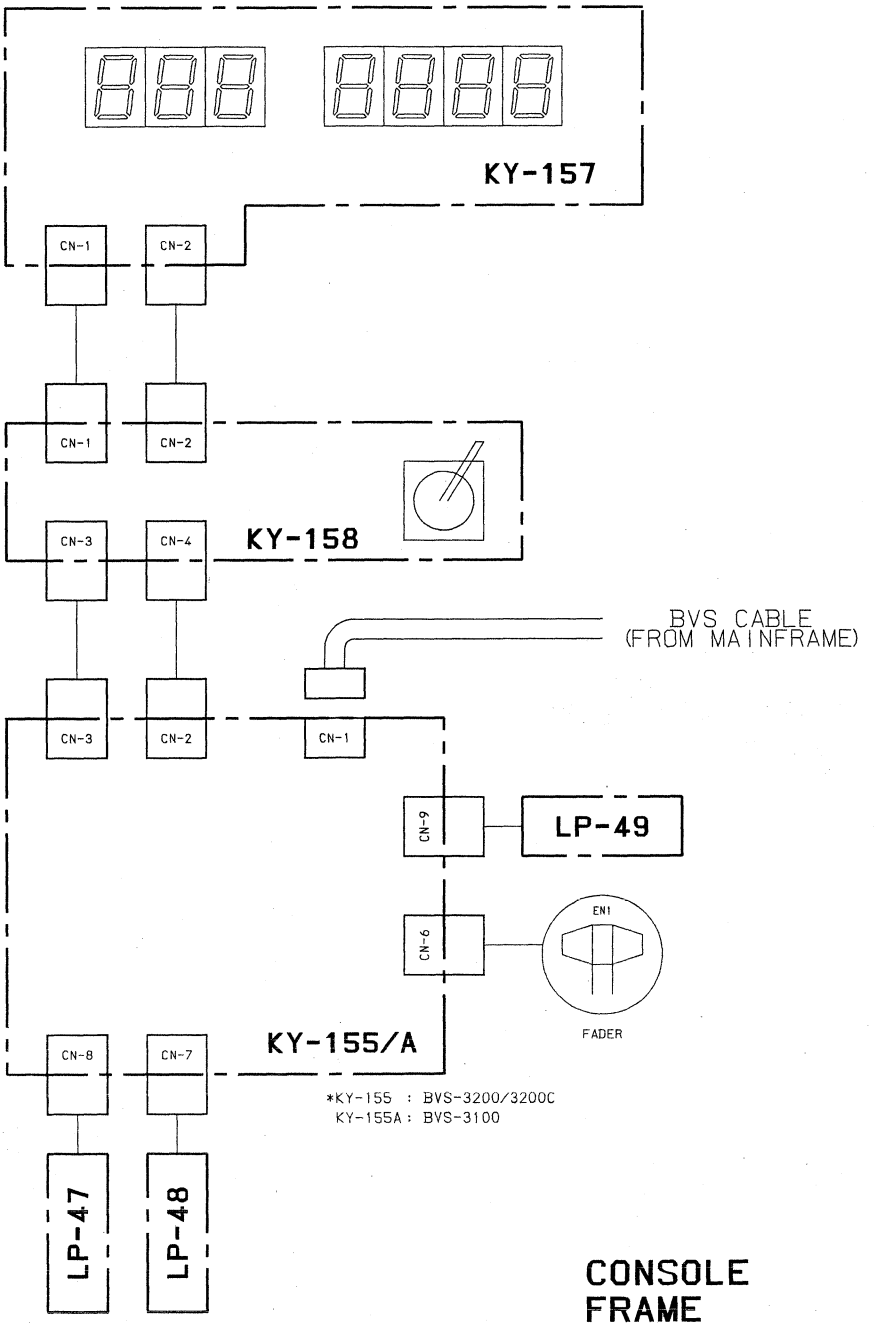
KY-157
1-631-549-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

KY-158 SUB SWITCH BOARD



KY-158
1-631-550-11
BVS-3100/3100P
BVS-3200/3200P
BVS-3200C/3200CP

FRAME (CONSOLE)



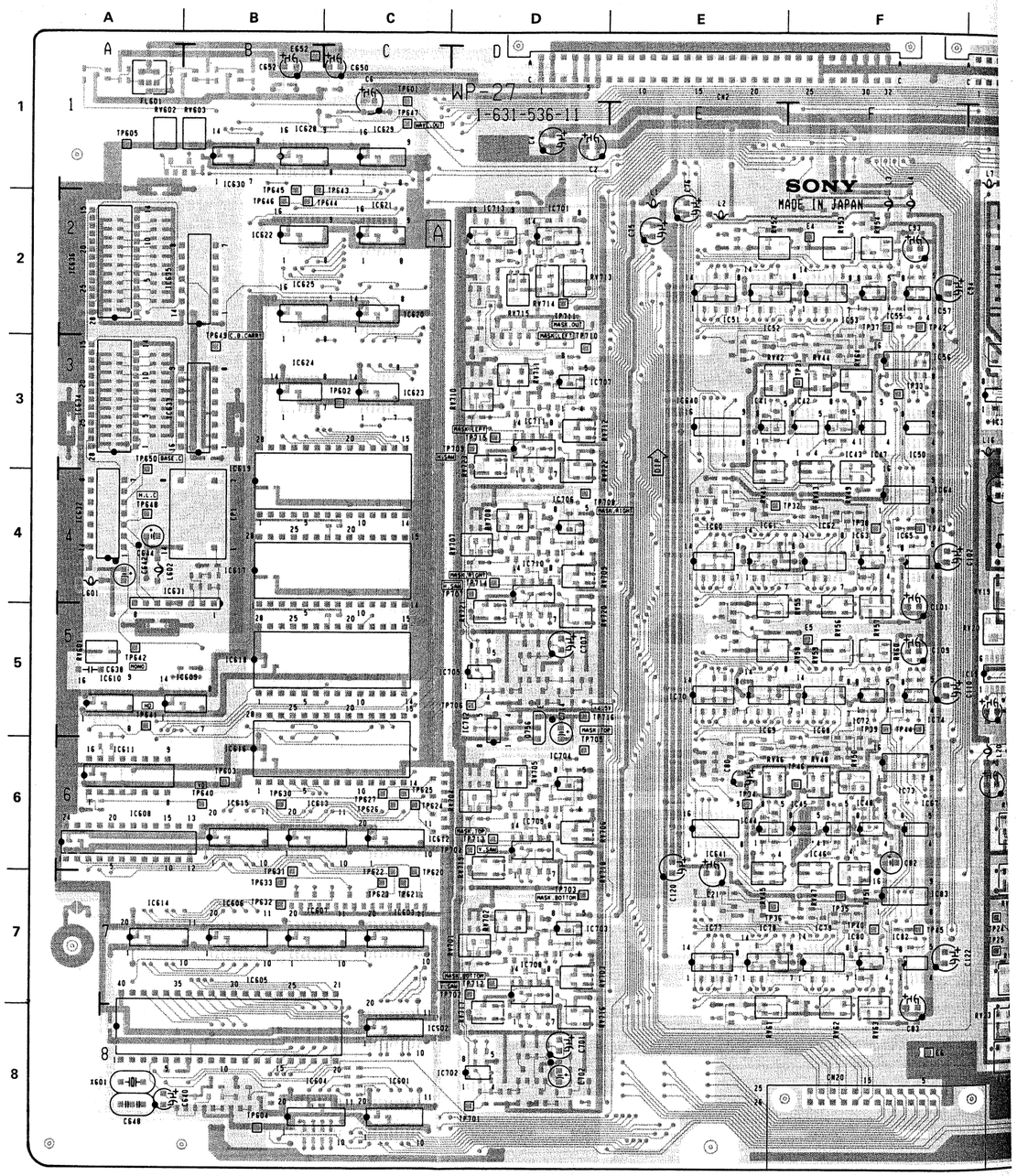
SECTION 8
PRINTED CIRCUIT BOARDS

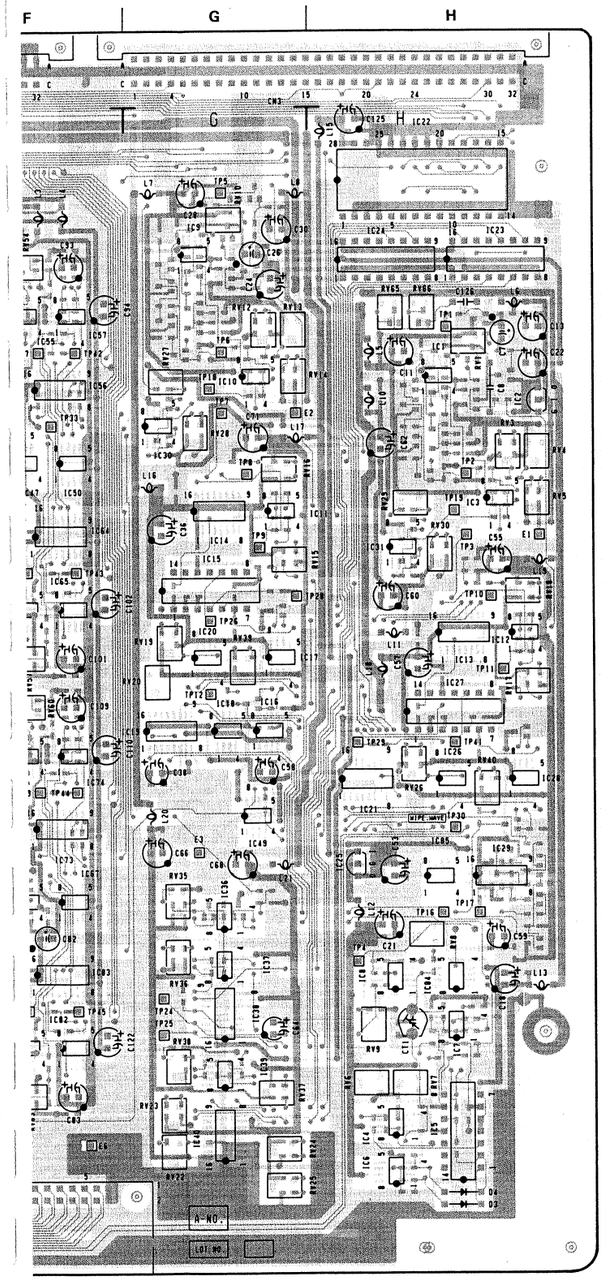
WP-27/27P (1-631-536-11)

CN3	G - 1	IC42	F - 3	JR607	A - 3 (B)	Q95	G - 4 (B)	RV18	H - 4	TP715	D - 3
CN20	F - 8	IC43	F - 3	JR609	A - 3 (B)	Q96	G - 5 (B)	RV19	G - 4	TP716	D - 5
		IC44	E - 6	JR612	A - 3 (B)	Q97	H - 5 (B)	RV20	G - 5		
CT1	H - 7	IC45	F - 6	JR613	A - 3 (B)	Q98	H - 6 (B)	RV22	G - 8	X601	A - 8
		IC46	F - 6	JR616	A - 3 (B)	Q601	B - 8 (B)	RV23	G - 8	X602	B - 4
D1	H - 2 (B)	IC47	F - 3	JR617	A - 3 (B)	Q602	B - 8 (B)	RV24	G - 8		
D2	H - 2 (B)	IC48	F - 6	JR619	A - 3 (B)	Q603	A - 1 (B)	RV25	G - 8		
D3	H - 8	IC49	G - 6	JR621	A - 2 (B)	Q604	B - 1 (B)	RV26	H - 5		
D4	H - 8	IC50	F - 3	JR623	A - 2 (B)	Q605	B - 1 (B)	RV27	G - 2		
D5	C - 1 (B)	IC51	E - 2	JR626	A - 2 (B)	Q606	E - 6 (B)	RV28	G - 3		
D6	F - 2 (B)	IC52	E - 2	JR627	A - 2 (B)	Q701	D - 8 (B)	RV29	H - 3		
D7	G - 1 (B)	IC53	F - 2	JR630	A - 2 (B)	Q702	D - 8 (B)	RV30	H - 4		
D8	G - 2 (B)	IC55	F - 2	JR631	A - 2 (B)	Q703	D - 8 (B)	RV35	G - 6		
D13	F - 2 (B)	IC56	F - 3	JR634	A - 2 (B)	Q704	D - 8 (B)	RV36	G - 7		
D14	F - 2 (B)	IC57	F - 2			Q705	D - 8 (B)	RV37	G - 7		
D15	E - 4 (B)	IC60	E - 4	Q1	H - 2 (B)	Q706	D - 7 (B)	RV38	G - 7		
D16	F - 6 (B)	IC61	E - 4	Q2	H - 2 (B)	Q707	D - 7 (B)	RV39	G - 4		
D17	E - 7 (B)	IC62	F - 4	Q3	H - 3 (B)	Q708	D - 7 (B)	RV40	H - 5		
D28	F - 2 (B)	IC63	F - 4	Q4	H - 3 (B)	Q709	D - 7 (B)	RV41	E - 4		
D601	C - 6 (B)	IC64	F - 4	Q5	H - 2 (B)	Q710	D - 7 (B)	RV42	E - 3		
D602	C - 6 (B)	IC67	F - 6	Q6	H - 3 (B)	Q711	D - 7 (B)	RV43	F - 4		
D603	D - 6 (B)	IC69	E - 5	Q7	H - 3 (B)	Q712	D - 7 (B)	RV44	F - 3		
D604	C - 6 (B)	IC70	E - 5	Q8	H - 3 (B)	Q713	D - 6 (B)	RV45	E - 7		
D605	C - 7 (B)	IC72	F - 5	Q9	H - 3 (B)	Q714	D - 6 (B)	RV46	E - 6		
D606	C - 7 (B)	IC73	F - 6	Q10	H - 3 (B)	Q715	D - 6 (B)	RV47	F - 7		
D607	C - 7 (B)	IC74	F - 5	Q11	H - 3 (B)	Q716	D - 6 (B)	RV48	F - 6		
D608	C - 7 (B)	IC77	E - 7	Q12	H - 3 (B)	Q717	D - 6 (B)	RV49	F - 4		
D609	B - 8 (B)	IC78	E - 7	Q14	G - 1 (B)	Q718	D - 6 (B)	RV50	F - 6		
D610	B - 8 (B)	IC79	F - 7	Q15	G - 2 (B)	Q719	D - 6 (B)	RV51	F - 7		
D611	C - 7 (B)	IC80	F - 7	Q16	G - 2 (B)	Q720	D - 5 (B)	RV52	E - 2		
D612	C - 7 (B)	IC82	F - 7	Q17	G - 2 (B)	Q721	D - 5 (B)	RV53	F - 2		
D613	C - 7 (B)	IC83	F - 7	Q18	G - 2 (B)	Q722	D - 5 (B)	RV54	F - 2		
D614	B - 7 (B)	IC84	H - 7	Q19	G - 2 (B)	Q723	D - 5 (B)	RV55	F - 5		
D615	A - 1 (B)	IC85	H - 6	Q20	G - 2 (B)	Q724	D - 5 (B)	RV56	F - 5		
D616	B - 1 (B)	IC601	C - 8	Q21	G - 2 (B)	Q725	D - 4 (B)	RV57	F - 5		
D701	D - 8 (B)	IC602	C - 8	Q22	G - 2 (B)	Q726	D - 4 (B)	RV58	F - 5		
D702	D - 7 (B)	IC603	C - 7	Q23	G - 2 (B)	Q727	D - 4 (B)	RV59	F - 5		
D703	D - 6 (B)	IC604	B - 8	Q24	G - 2 (B)	Q728	D - 4 (B)	RV60	F - 5		
D704	D - 5 (B)	IC605	B - 8	Q25	G - 2 (B)	Q729	D - 4 (B)	RV61	E - 8		
D705	D - 4 (B)	IC606	B - 7	Q35	H - 6 (B)	Q730	D - 4 (B)	RV62	F - 8		
D706	D - 3 (B)	IC607	B - 7	Q36	H - 6 (B)	Q731	D - 4 (B)	RV63	F - 8		
D707	D - 2 (B)	IC608	A - 6	Q37	H - 6 (B)	Q732	D - 3 (B)	RV64	F - 3		
D708	D - 2 (B)	IC609	B - 5	Q38	H - 6 (B)	Q733	D - 3 (B)	RV65	H - 2		
D709	D - 3 (B)	IC610	A - 5	Q39	H - 6 (B)	Q734	D - 3 (B)	RV66	H - 2		
		IC611	A - 6	Q40	G - 3 (B)	Q735	D - 3 (B)	RV601	A - 5		
FL601	A - 1	IC612	C - 6	Q41	G - 3 (B)	Q736	D - 3 (B)	RV602	A - 1		
		IC613	B - 6	Q42	H - 4 (B)	Q737	D - 3 (B)	RV603	B - 1		
IC1	H - 2	IC614	A - 7	Q43	H - 4 (B)	Q738	D - 3 (B)	RV701	D - 7		
IC2	H - 3	IC616	B - 6	Q56	G - 6 (B)	Q739	D - 3 (B)	RV702	D - 7		
IC3	H - 3	IC617	B - 4	Q57	G - 6 (B)	Q740	D - 3 (B)	RV703	D - 7		
IC4	H - 8	IC620	C - 2	Q60	E - 3 (B)	Q741	D - 2 (B)	RV704	D - 6		
IC5	H - 8	IC621	C - 2	Q61	F - 3 (B)	Q742	D - 2 (B)	RV705	D - 6		
IC6	H - 8	IC622	B - 2	Q62	F - 6 (B)	Q743	D - 2 (B)	RV706	D - 6		
IC7	H - 7	IC623	C - 3	Q63	F - 6 (B)	Q744	D - 2 (B)	RV707	D - 4		
IC8	H - 7	IC624	B - 3	Q64	F - 6 (B)	Q745	D - 2 (B)	RV708	D - 4		
IC9	G - 4	IC625	B - 2	Q65	F - 6 (B)	Q746	D - 2 (B)	RV709	D - 4		
IC10	G - 3	IC628	B - 1	Q66	E - 2 (B)	Q747	D - 2 (B)	RV710	D - 3		
IC11	H - 4	IC629	C - 1	Q67	E - 2 (B)	Q748	D - 8 (B)	RV711	D - 3		
IC12	H - 4	IC630	B - 1	Q68	E - 3 (B)	Q749	D - 8 (B)	RV712	D - 3		
IC13	H - 5	IC631	A - 4	Q69	F - 2 (B)	Q750	D - 6 (B)	RV713	D - 2		
IC14	G - 4	IC632	A - 4	Q70	F - 3 (B)	Q751	D - 6 (B)	RV714	D - 2		
IC15	G - 4	IC633	A - 3	Q71	F - 2 (B)	Q752	D - 5 (B)	RV715	D - 2		
IC16	G - 5	IC634	A - 3	Q72	E - 4 (B)	Q753	D - 4 (B)	RV716	D - 8		
IC17	G - 5	IC635	A - 2	Q73	E - 5 (B)	Q754	D - 3 (B)	RV717	D - 8		
IC18	G - 5	IC636	A - 2	Q74	E - 5 (B)	Q755	D - 3 (B)	RV718	D - 6		
IC19	G - 5	IC640	E - 3	Q75	E - 4 (B)	Q756	D - 5	RV719	D - 6		
IC20	G - 4	IC641	E - 6	Q76	F - 4 (B)	Q757	D - 3 (B)	RV720	D - 5		
IC21	H - 6	IC701	D - 2	Q77	F - 4 (B)	Q758	D - 2 (B)	RV721	D - 5		
IC22	H - 1	IC702	D - 8	Q78	F - 4 (B)			RV722	D - 3		
IC23	H - 2	IC703	D - 7	Q79	E - 5 (B)	RV1	H - 2	RV723	D - 3		
IC24	H - 2	IC704	D - 6	Q80	E - 5 (B)	RV3	H - 3				
IC25	H - 6	IC705	D - 5	Q81	E - 5 (B)	RV4	H - 3	TPE1	H - 4		
IC26	H - 5	IC706	D - 4	Q82	E - 6 (B)	RV5	H - 3	TPE2	G - 3		
IC27	H - 5	IC707	D - 3	Q83	F - 5 (B)	RV6	H - 7	TPE3	G - 3		
IC28	H - 5	IC708	D - 7	Q84	F - 6 (B)	RV7	H - 7				
IC29	H - 6	IC709	D - 6	Q85	F - 5 (B)	RV8	H - 6	TP706	D - 5		
IC30	G - 3	IC710	D - 4	Q86	E - 7 (B)	RV9	H - 7	TP707	D - 4		
IC31	H - 4	IC711	D - 3	Q87	E - 8 (B)	RV10	G - 1	TP708	D - 4		
IC36	G - 6	IC712	D - 5	Q88	E - 8 (B)	RV12	G - 2	TP709	D - 3		
IC37	G - 7	IC713	D - 2	Q89	E - 7 (B)	RV13	G - 2	TP710	D - 3		
IC38	G - 7			Q90	F - 7 (B)	RV14	H - 3	TP711	D - 2		
IC39	G - 7	JR601	A - 3 (B)	Q91	F - 7 (B)	RV15	H - 4	TP712	D - 7		
IC40	G - 8	JR604	A - 3 (B)	Q92	F - 7 (B)	RV16	G - 3	TP713	D - 6		
IC41	F - 3	JR606	A - 3 (B)	Q93	E - 2 (B)	RV17	H - 5	TP714	D - 4		

NOTE
- ; *-* A SIDE
- (B); *-* B SIDE

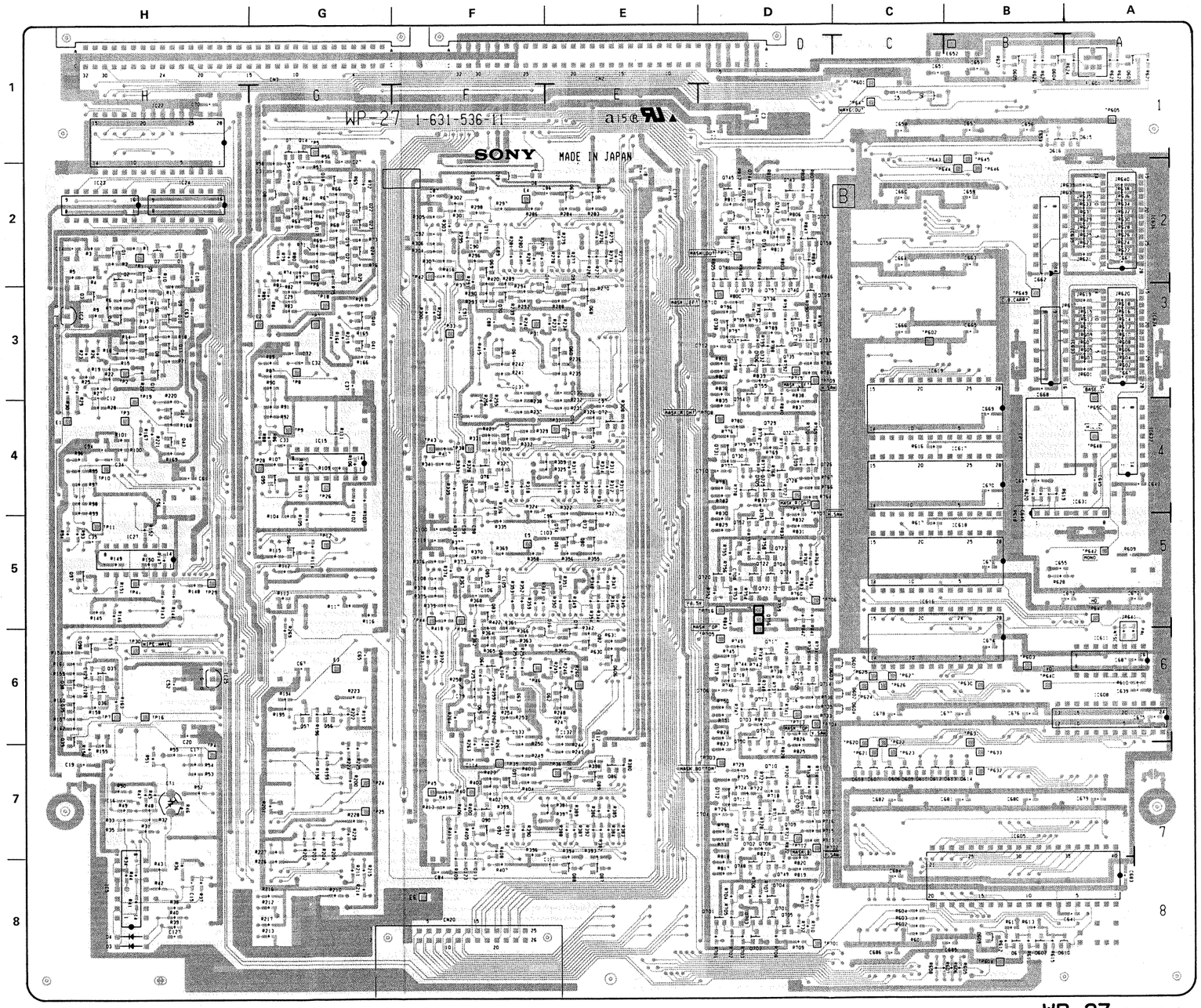
WP-27/27P; WIPE SIGNAL GENERATOR





WP-27 -A SIDE-

1-631-536-11 (1)
BVS-3100/3200/3200C-----WP-27
BVS-3100P/3200P/3200CP---WP-27P



WP-27 -B SIDE-

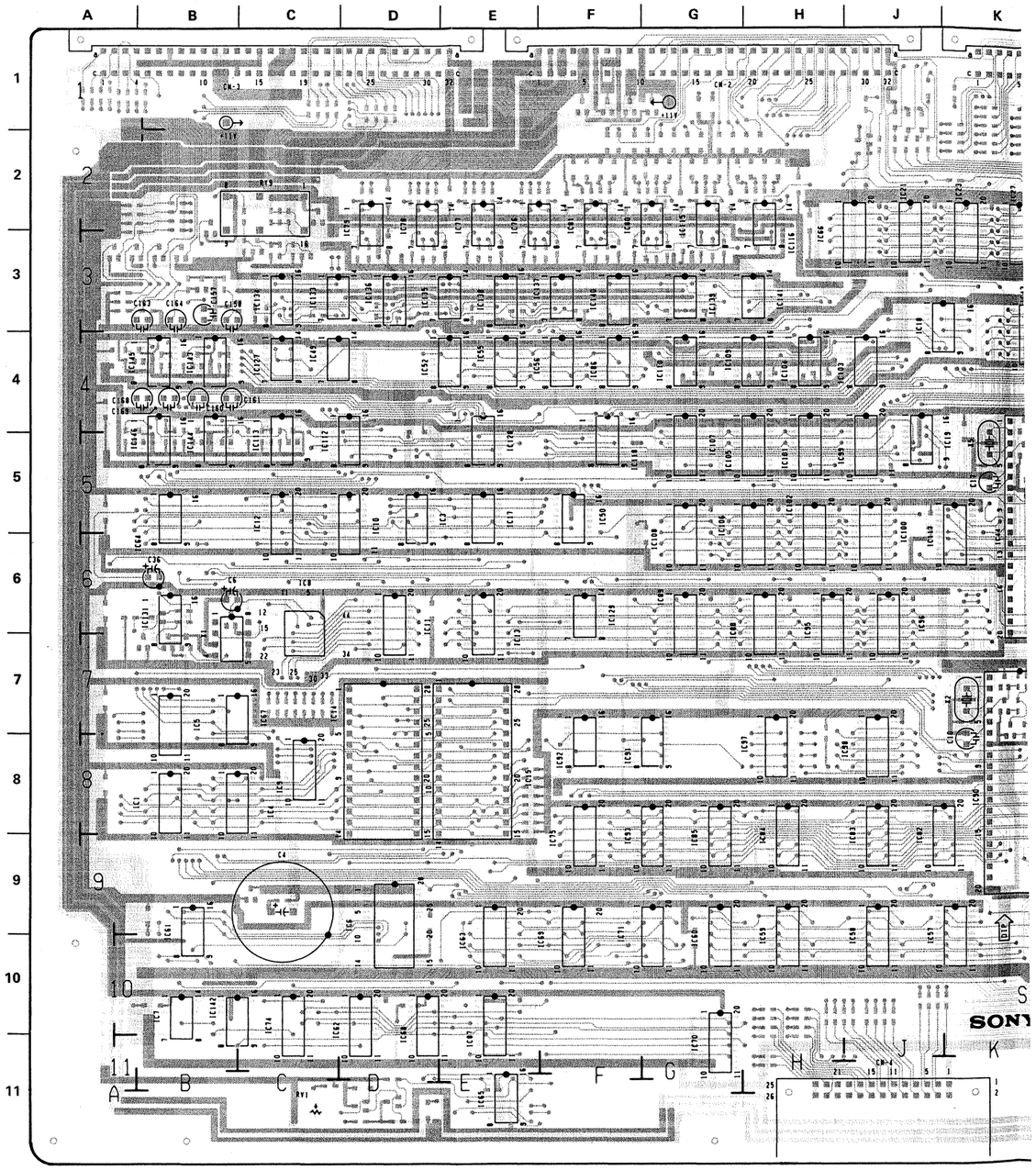
1-631-536-11 (1)
BVS-3100/3200/3200C-----WP-27
BVS-3100P/3200P/3200CP---WP-27P

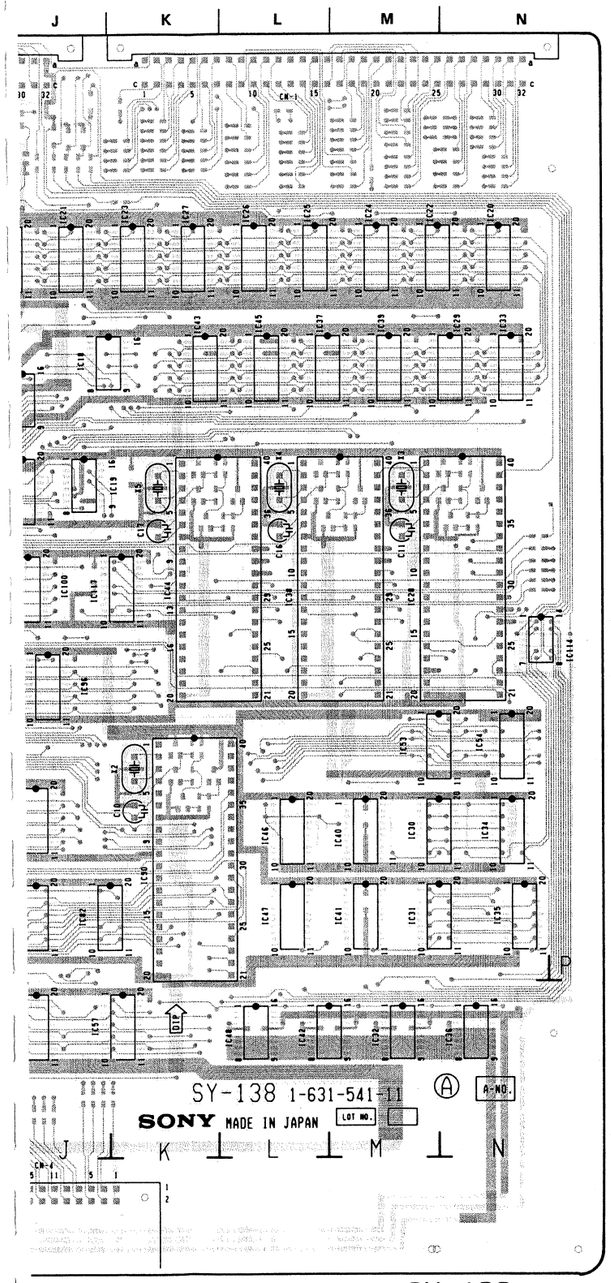
SY-138/138P (1-631-541-11)

CNI14	C-8	IC50	F-5	Q1	B-3 (B)
CNI15	E-7	IC52	D-4	Q2	A-3 (B)
CNI28	M-5	IC53	M-7	Q3	B-3 (B)
CNI38	L-5	IC54	N-7	Q9	B-6 (B)
CNI44	K-6	IC55	E-4	Q10	B-7 (B)
CNI90	K-8	IC56	E-4	Q11	B-7 (B)
CN1	L-1	IC57	J-10	Q12	C-3 (B)
CN2	G-1	IC58	J-10	Q13	C-3 (B)
CN3	C-1	IC59	H-10	Q14	D-11 (B)
CN4	J-11	IC60	G-10	Q15	J-1 (B)
		IC61	B-9	Q16	D-11 (B)
D1	C-2 (B)	IC62	D-10	Q17	K-7 (B)
D5	C-9 (B)	IC63	E-10	Q18	K-7 (B)
D6	B-6 (B)	IC64	B-6	Q19	M-5 (B)
D7	K-7 (B)	IC65	E-11	Q20	M-5 (B)
D8	K-7 (B)	IC66	H-3	Q21	L-5 (B)
D9	N-4 (B)	IC67	C-7	Q22	L-5 (B)
D10	N-4 (B)	IC68	D-10	Q23	K-5 (B)
D11	M-4 (B)	IC69	F-10	Q24	K-5 (B)
D12	L-4 (B)	IC70	G-11	Q25	A-3 (B)
D13	L-5 (B)	IC71	F-10		
D14	K-4 (B)	IC74	C-10	RV1	C-11
D15	A-7 (B)	IC75	F-9		
D16	B-2 (B)	IC76	E-2	RY9	C-2
D17	F-1 (B)	IC77	E-2		
D18	F-1 (B)	IC78	D-2	X1	B-7
D19	F-1 (B)	IC79	D-2	X2	K-7
D20	F-1 (B)	IC80	F-2	X3	M-4
D21	B-4 (B)	IC81	F-2	X4	L-4
D22	B-3 (B)	IC82	J-9	X5	K-5
D23	B-5 (B)	IC83	J-9		
D24	C-5 (B)	IC84	H-9		
D25	A-4 (B)	IC85	G-9		
D26	B-3 (B)	IC86	F-4		
D27	A-5 (B)	IC87	E-10		
D28	B-5 (B)	IC88	G-6		
		IC89	G-6		
IC1	B-8	IC90	K-8		
IC3	E-5	IC91	F-8		
IC4	C-8	IC92	F-8		
IC5	B-7	IC93	F-9		
IC6	D-9	IC95	H-6		
IC7	B-10	IC96	J-6		
IC8	C-6	IC97	H-8		
IC9	C-8	IC98	J-8		
IC10	D-5	IC99	H-5		
IC11	D-6	IC100	J-6		
IC12	C-5	IC101	H-5		
IC13	E-6	IC102	H-5		
IC14	C-7	IC103	H-4		
IC15	E-8	IC104	H-4		
IC17	E-5	IC105	G-5		
IC18	J-3	IC106	G-5		
IC19	K-5	IC107	G-5		
IC20	N-2	IC108	G-4		
IC21	J-2	IC109	G-4		
IC22	M-2	IC110	G-4		
IC23	K-2	IC112	C-5		
IC24	M-2	IC113	C-5		
IC25	L-2	IC114	N-6		
IC26	L-2	IC115	G-2		
IC27	K-2	IC116	H-3		
IC28	M-6	IC117	J-6		
IC29	N-3	IC118	F-5		
IC30	M-8	IC127	C-4		
IC31	M-8	IC128	E-5		
IC32	M-10	IC129	F-6		
IC33	N-3	IC131	B-6		
IC34	N-8	IC133	C-3		
IC35	N-9	IC134	C-3		
IC36	N-10	IC135	D-3		
IC37	L-3	IC136	D-3		
IC38	L-6	IC137	E-3		
IC39	M-3	IC138	E-3		
IC40	M-8	IC139	G-3		
IC41	M-9	IC140	F-3		
IC42	L-10	IC141	H-3		
IC43	K-3	IC142	B-10		
IC44	K-6	IC143	B-4		
IC45	L-3	IC144	B-5		
IC46	L-8	IC145	A-4		
IC47	L-9	IC146	A-5		
IC48	L-10				
IC49	C-4				

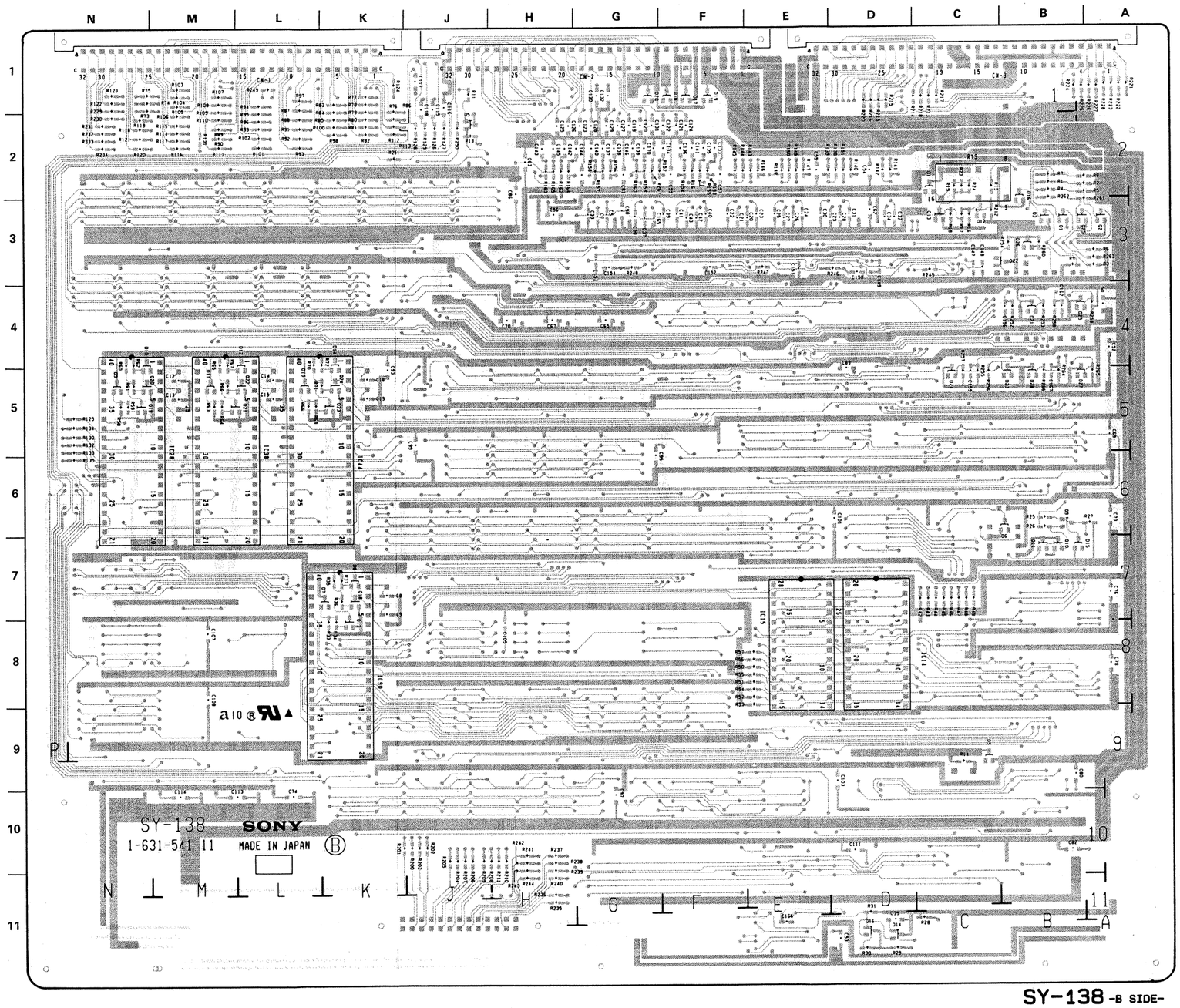
NOTE
- ; *-*A SIDE
-(B); *-*B SID

SY-138/138P; SYSTEM CONTROL



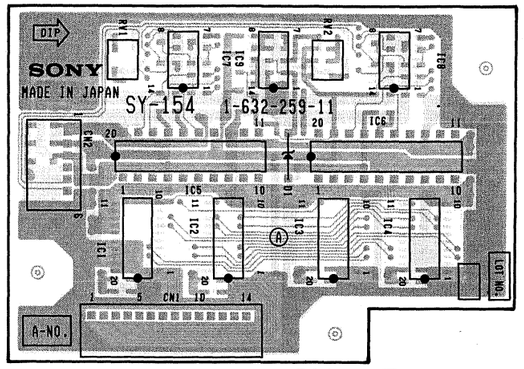


SY-138 -A SIDE-
1-631-541-11 (1)
BVS-3100/3200/3200C-----SY-138
BVS-3100P/3200P/3200CP---SY-138P

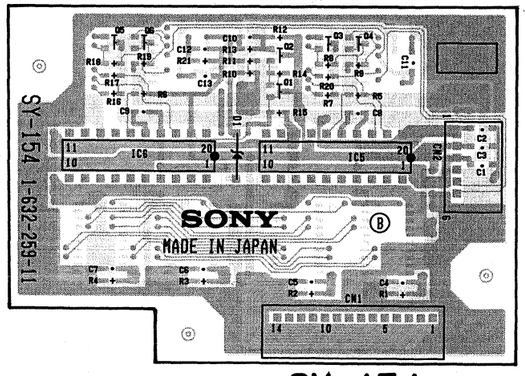


SY-138 -B SIDE-
1-631-541-11 (1)
BVS-3100/3200/3200C-----SY-138
BVS-3100P/3200P/3200CP---SY-138P

SY-154; 12BIT DA CHANGER



SY-154 -A SIDE-
1-622-259-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP



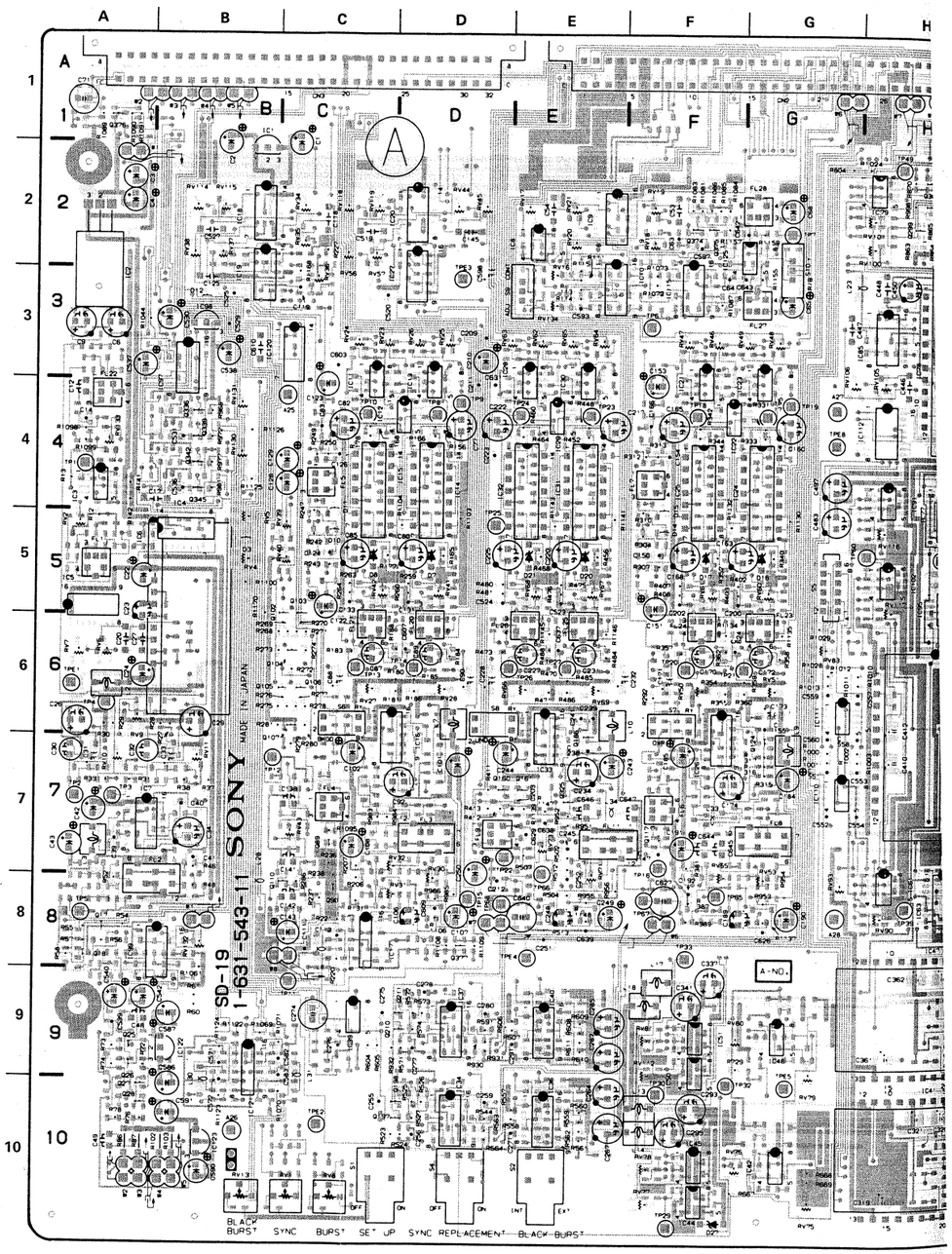
SY-154 -B SIDE-
1-622-259-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP

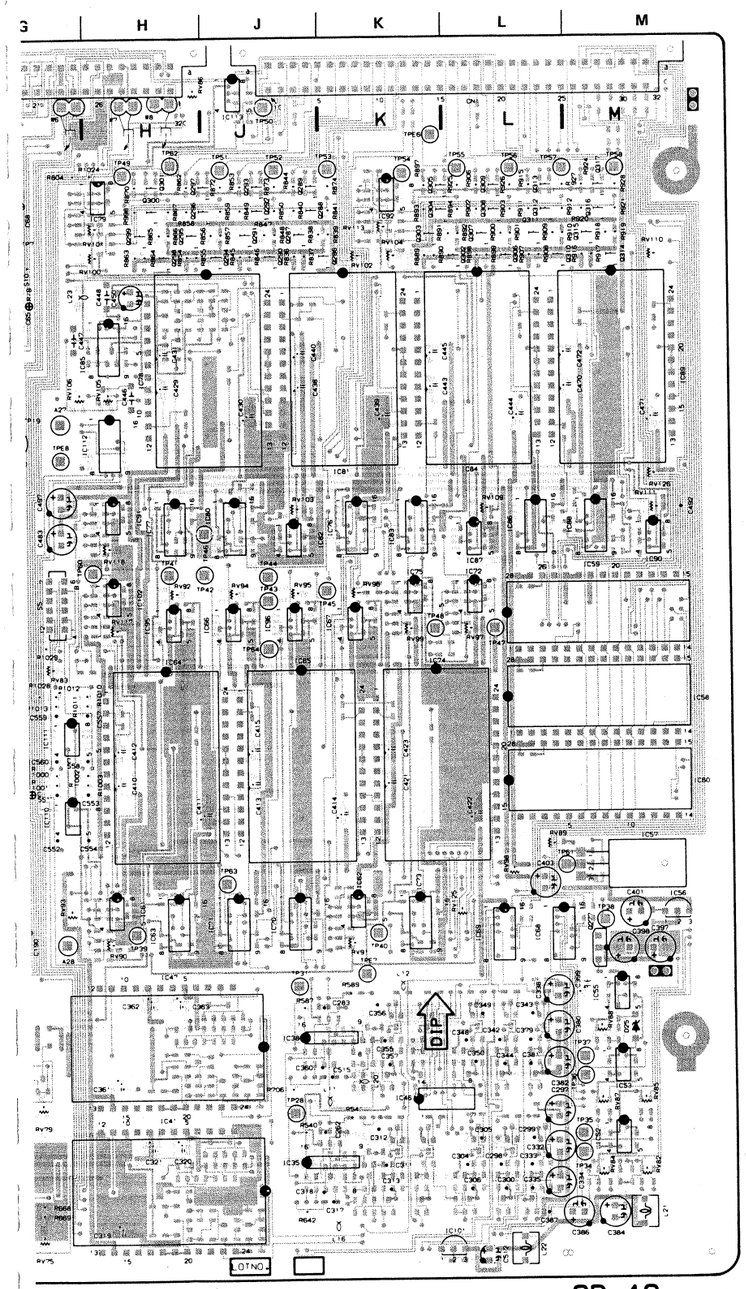
SD-19/19P; SIGNAL GENERATOR FOR SIGNAL PROCESSOR

SD-19/19P (1-631-543-11)

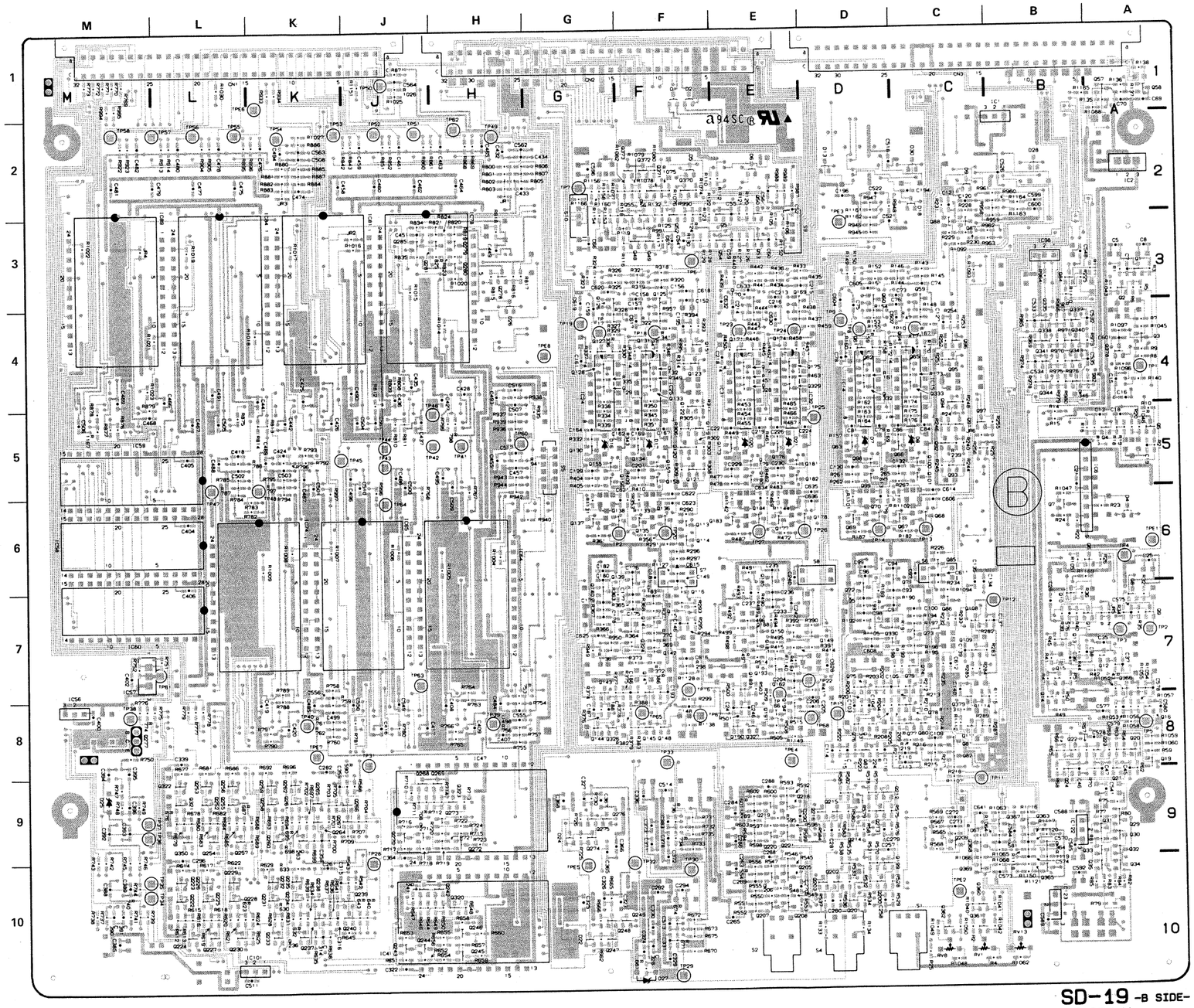
CN1	L - 1	IC33	E - 7	Q7	B - 6 (B)	Q103	C - 5	Q203	D - 10 (B)	Q294	J - 2	RV17	E - 2	RV114	B - 2
CN2	G - 1	IC34	D - 10	Q8	A - 7 (B)	Q104	B - 6	Q205	E - 10 (B)	Q295	H - 2	RV18	F - 2	RV115	B - 2
CN3	C - 1	IC35	J - 10	Q9	A - 7 (B)	Q105	B - 6	Q206	E - 10 (B)	Q296	H - 2	RV19	F - 2	RV116	H - 5
		IC36	E - 10	Q10	B - 7 (B)	Q106	C - 6	Q207	E - 10 (B)	Q297	H - 2	RV20	E - 2	RV117	H - 5
D1	F - 1 (B)	IC37	D - 9	Q11	B - 7 (B)	Q107	B - 7	Q208	E - 10 (B)	Q298	H - 2	RV21	E - 2	RV118	C - 2
D2	F - 1 (B)	IC38	J - 9	Q12	A - 7 (B)	Q108	C - 7 (B)	Q209	C - 9 (B)	Q299	H - 2	RV23	C - 3	RV119	C - 2
D3	B - 5	IC39	C - 9	Q13	B - 7 (B)	Q109	C - 7 (B)	Q210	C - 9	Q300	H - 2	RV24	C - 3	RV125	L - 8
D4	A - 6 (B)	IC40	E - 9	Q14	B - 8 (B)	Q110	B - 8	Q211	D - 9	Q301	H - 2	RV25	D - 3	RV126	M - 4
D5	F - 2 (B)	IC41	H - 10	Q15	B - 7 (B)	Q111	C - 8 (B)	Q212	D - 9 (B)	Q302	L - 2	RV26	D - 3	RV130	B - 4
D6	E - 2 (B)	IC42	G - 10	Q16	A - 8 (B)	Q113	F - 6 (B)	Q213	D - 9 (B)	Q303	K - 2	RV27	C - 6	RV131	B - 4
D7	D - 5	IC44	F - 10	Q17	A - 8	Q114	F - 6 (B)	Q214	D - 9 (B)	Q304	K - 2	RV28	D - 6	RV132	B - 8
D8	C - 5	IC45	F - 10	Q18	A - 8	Q115	F - 7 (B)	Q215	D - 9 (B)	Q305	K - 2	RV30	D - 7	RV133	A - 4
D9	C - 2 (B)	IC46	K - 9	Q19	A - 8 (B)	Q116	F - 7 (B)	Q216	D - 9 (B)	Q306	L - 2	RV31	D - 8	RV134	E - 3
D10	C - 5	IC47	H - 8	Q20	A - 8 (B)	Q117	F - 7	Q218	E - 9 (B)	Q307	L - 2	RV32	D - 7		
D11	C - 4	IC48	G - 9	Q21	A - 9 (B)	Q119	F - 5 (B)	Q219	E - 9 (B)	Q308	L - 2	RV34	C - 2	S1	C - 10
D12	B - 3	IC50	F - 9	Q22	B - 8 (B)	Q120	F - 5 (B)	Q220	E - 9 (B)	Q309	L - 2	RV35	C - 5	S2	E - 10
D13	D - 2 (B)	IC51	F - 9	Q23	A - 8 (B)	Q121	F - 5 (B)	Q221	E - 9 (B)	Q310	M - 2	RV36	C - 3	S4	D - 10
D14	F - 5	IC52	M - 10	Q24	B - 9 (B)	Q122	F - 5 (B)	Q222	L - 10 (B)	Q311	L - 2	RV37	B - 2	S5	G - 5
D15	F - 5	IC53	M - 9	Q25	A - 9	Q123	F - 4 (B)	Q223	L - 10 (B)	Q312	L - 2	RV38	B - 2	S6	C - 6
D16	G - 5	IC55	M - 8	Q26	A - 9	Q124	G - 7	Q224	L - 10 (B)	Q313	L - 2	RV39	B - 5	S7	F - 6
D17	F - 5	IC56	M - 7	Q27	A - 10	Q125	F - 3 (B)	Q225	L - 10 (B)	Q314	M - 2	RV41	D - 5	S8	D - 6
D18	C - 2 (B)	IC57	M - 7	Q28	A - 10	Q126	G - 3 (B)	Q226	L - 10 (B)	Q315	M - 2	RV42	C - 5	S9	D - 3
D20	E - 5	IC58	M - 6	Q29	A - 9 (B)	Q127	G - 4 (B)	Q227	L - 10 (B)	Q316	M - 2	RV43	C - 7	S10	G - 3
D21	E - 5	IC59	M - 5	Q30	A - 9 (B)	Q128	G - 4 (B)	Q228	L - 10 (B)	Q317	M - 2	RV44	D - 2		
D22	G - 10 (B)	IC60	M - 7	Q31	A - 9 (B)	Q129	F - 4 (B)	Q229	L - 10 (B)	Q320	H - 10 (B)	RV45	D - 2	TPE1	A - 6
D24	G - 9 (B)	IC61	H - 8	Q32	A - 9 (B)	Q130	G - 5 (B)	Q230	L - 10 (B)	Q321	L - 9 (B)	RV46	F - 3	TPE2	C - 10
D25	M - 9	IC62	K - 7	Q33	B - 9 (B)	Q131	F - 4 (B)	Q231	K - 10 (B)	Q322	C - 9 (B)	RV47	F - 3	TPE3	D - 3
D26	H - 4 (B)	IC63	H - 8	Q34	A - 10 (B)	Q132	F - 4 (B)	Q232	K - 10 (B)	Q323	H - 9 (B)	RV48	G - 3	TPE4	E - 8
D27	F - 10	IC64	H - 6	Q35	B - 10 (B)	Q133	F - 4 (B)	Q233	K - 10 (B)	Q324	F - 7 (B)	RV49	F - 3	TPE5	G - 9
D28	B - 2 (B)	IC65	J - 6	Q48	F - 3 (B)	Q134	F - 5 (B)	Q234	K - 10 (B)	Q325	E - 7	RV50	F - 6	TPE6	K - 1
D30	C - 2 (B)	IC66	H - 5	Q49	F - 3 (B)	Q135	F - 6 (B)	Q235	K - 10 (B)	Q326	G - 8 (B)	RV51	G - 6	TPE7	K - 8
		IC67	K - 5	Q50	E - 2 (B)	Q136	F - 6 (B)	Q236	K - 10 (B)	Q327	E - 8 (B)	RV53	G - 7	TPE8	G - 4
FL1	A - 5	IC68	L - 8	Q51	E - 4 (B)	Q137	G - 6 (B)	Q237	K - 10 (B)	Q328	E - 4 (B)	RV55	F - 7		
FL2	B - 7	IC69	L - 8	Q52	F - 3 (B)	Q138	F - 6 (B)	Q238	K - 10 (B)	Q329	D - 4 (B)	RV56	C - 3	TP1	A - 4
FL3	D - 7	IC70	J - 8	Q53	E - 3 (B)	Q139	F - 6 (B)	Q239	J - 10 (B)	Q330	D - 7 (B)	RV57	C - 3	TP2	A - 7
FL4	C - 7	IC71	H - 8	Q54	E - 3 (B)	Q140	G - 7 (B)	Q240	J - 10 (B)	Q331	D - 8 (B)	RV60	G - 5		
FL5	C - 4	IC72	L - 5	Q55	F - 2 (B)	Q141	F - 7 (B)	Q241	J - 10 (B)	Q332	D - 4 (B)	RV61	F - 5		
FL6	F - 7	IC73	K - 7	Q56	F - 2 (B)	Q142	F - 7 (B)	Q242	H - 10 (B)	Q333	C - 4 (B)	RV62	E - 3		
FL7	F - 4	IC74	K - 6	Q57	A - 1 (B)	Q143	G - 7 (B)	Q243	J - 10 (B)	Q335	B - 4 (B)	RV63	D - 3		
FL8	G - 7	IC75	K - 5	Q58	A - 1 (B)	Q144	G - 8 (B)	Q244	J - 10 (B)	Q336	B - 4	RV64	E - 3		
FL9	D - 7	IC76	K - 5	Q59	C - 3 (B)	Q145	F - 8 (B)	Q245	H - 10 (B)	Q337	B - 4 (B)	RV65	E - 3		
FL11	E - 7	IC77	H - 4	Q60	D - 3 (B)	Q147	F - 7 (B)	Q246	H - 10 (B)	Q338	B - 4 (B)	RV66	D - 6		
FL20	D - 6	IC78	H - 3	Q61	D - 4 (B)	Q148	F - 8 (B)	Q247	G - 10 (B)	Q339	B - 4	RV67	E - 5		
FL21	C - 6	IC79	H - 2	Q62	D - 4 (B)	Q149	D - 7 (B)	Q248	G - 10 (B)	Q340	B - 4 (B)	RV68	E - 5		
FL22	A - 3	IC80	J - 4	Q63	D - 5 (B)	Q150	E - 7 (B)	Q249	F - 10 (B)	Q341	B - 4 (B)	RV69	E - 6		
FL23	G - 5	IC81	K - 4	Q64	C - 4 (B)	Q151	F - 4 (B)	Q252	L - 9 (B)	Q342	B - 4	RV71	E - 7		
FL24	F - 6	IC82	J - 5	Q65	C - 4 (B)	Q155	G - 5 (B)	Q253	L - 9 (B)	Q343	B - 4 (B)	RV73	E - 7		
FL25	E - 6	IC83	K - 5	Q66	C - 5 (B)	Q156	F - 5 (B)	Q254	L - 9 (B)	Q344	B - 4 (B)	RV75	G - 10		
FL26	D - 6	IC84	L - 4	Q67	C - 6 (B)	Q157	F - 5 (B)	Q255	L - 9 (B)	Q345	B - 4	RV76	F - 10		
FL27	G - 3	IC85	G - 3	Q68	C - 6 (B)	Q158	F - 5 (B)	Q256	L - 9 (B)	Q346	B - 4 (B)	RV77	F - 10		
FL28	G - 2	IC86	L - 5	Q69	D - 6 (B)	Q160	D - 7	Q257	L - 9 (B)	Q350	L - 9 (B)	RV78	F - 10		
		IC87	L - 5	Q70	D - 6 (B)	Q161	E - 7	Q258	K - 9 (B)	Q360	C - 10 (B)	RV79	G - 10		
IC1	B - 1	IC88	M - 5	Q71	C - 7 (B)	Q162	E - 7 (B)	Q259	K - 9 (B)	Q361	C - 10 (B)	RV80	F - 9		
IC2	A - 3	IC89	M - 3	Q72	D - 7 (B)	Q169	D - 3 (B)	Q260	K - 9 (B)	Q362	C - 10 (B)	RV81	F - 9		
IC3	A - 4	IC90	M - 5	Q73	C - 7 (B)	Q170	E - 3 (B)	Q261	K - 9 (B)	Q363	B - 9 (B)	RV82	M - 10		
IC4	B - 4	IC91	H - 4	Q74	C - 7 (B)	Q171	E - 4 (B)	Q262	K - 9 (B)	Q364	B - 9 (B)	RV83	G - 6		
IC5	A - 5	IC92	K - 2	Q75	D - 7 (B)	Q172	E - 4 (B)	Q263	K - 9 (B)	Q365	B - 10 (B)	RV84	M - 10		
IC6	A - 5	IC95	H - 5	Q76	D - 8 (B)	Q173	E - 5 (B)	Q264	K - 9 (B)	Q366	A - 7 (B)	RV85	M - 9		
IC7	A - 7	IC96	J - 5	Q77	C - 8 (B)	Q174	E - 4 (B)	Q265	K - 9 (B)	Q367	B - 9 (B)	RV86	H - 1		
IC8	E - 2	IC97	B - 4	Q78	C - 8 (B)	Q175	E - 4 (B)	Q266	J - 9 (B)	Q368	C - 9 (B)	RV87	M - 9		
IC9	E - 2	IC98	B - 3	Q79	C - 7 (B)	Q176	E - 5 (B)	Q267	K - 9 (B)	Q369	C - 10 (B)	RV88	M - 9		
IC10	F - 3	IC99	A - 8	Q80	C - 8 (B)	Q177	E - 6 (B)	Q268	J - 9 (B)	Q370	F - 2 (B)	RV89	C - 7		
IC11	C - 3	IC101	K - 10	Q81	C - 8 (B)	Q178	D - 6 (B)	Q269	H - 9 (B)	Q371	F - 2 (B)	RV90	H - 8		
IC12	C - 4	IC102	H - 5	Q82	C - 8 (B)	Q179	E - 5 (B)	Q270	J - 9 (B)	Q372	F - 2 (B)	RV91	K - 8		
IC13	D - 3	IC110	G - 7	Q83	D - 8 (B)	Q180	E - 5 (B)	Q271	J - 9 (B)	Q373	F - 2 (B)	RV92	H - 5		
IC14	D - 4	IC111	G - 6	Q84	B - 3 (B)	Q181	D - 5 (B)	Q272	H - 9 (B)	Q374	F - 2	RV93	G - 8		
IC15	D - 4	IC112	G - 4	Q85	C - 6 (B)	Q182	D - 5 (B)	Q273	H - 9 (B)	Q375	F - 2	RV94	J - 5		
IC16	D - 7	IC113	J - 1	Q86	C - 7 (B)	Q183	E - 6 (B)	Q274	G - 9	Q376	A - 1	RV95	J - 5		
IC17	C - 8	IC115	F - 3	Q87	C - 3 (B)	Q184	E - 6 (B)	Q275	G - 9 (B)	Q377	D - 8	RV96	K - 5		
IC18	B - 2	IC120	B - 3	Q88	C - 3 (B)	Q185	E - 6 (B)	Q276	G - 9 (B)	Q378	A - 4 (B)	RV97	L - 6		
IC19	B - 3	IC121	B - 10	Q89	C - 7	Q186	E - 7	Q277	H - 8	Q379	C - 8 (B)	RV98	L - 7		
IC20	C - 2	IC122	B - 9	Q90	C - 8	Q187	E - 7 (B)	Q278	H - 3 (B)			RV99	K - 6		
IC21	F - 4	IC123	B - 10	Q91	C - 5 (B)	Q188	E - 7 (B)	Q279	H - 3 (B)	RV1	C - 10	RV100	H - 2		
IC22	F - 4	IC125	F - 2	Q92	C - 5 (B)	Q189	E - 7 (B)	Q280	H - 3 (B)	RV2	A - 5	RV101	H - 2		
IC23	F - 4			Q93	C - 5 (B)	Q190	E - 8 (B)	Q281	J - 3 (B)	RV4	B - 5	RV102	K - 2		
IC24	F - 4	JR5	A - 7 (B)	Q94	C - 4 (B)	Q191	E - 8 (B)	Q285	J - 3 (B)	RV5	B - 5	RV103	J - 4		
IC25	F - 4	JR6	C - 5 (B)	Q95	C - 4 (B)	Q193	E - 7 (B)	Q286	K - 2	RV6	A - 6	RV104	K - 2		
IC26	F - 7			Q96	C - 4 (B)	Q194	E - 8 (B)	Q287	J - 2	RV7	A - 6	RV105	H - 3		
IC27	C - 3	Q1	A - 3 (B)	Q97	C - 5 (B)	Q197	C - 10	Q288	K - 2	RV8	C - 10	RV106	G - 3		
IC28	D - 3	Q2	A - 4 (B)	Q98	D - 5 (B)	Q198	D - 10	Q289	J - 2	RV9	A - 7	RV109	L - 4		
IC29	E - 4	Q3	A - 4 (B)	Q99	D - 5 (B)	Q199	D - 10 (B)	Q290	J - 2	RV10	A - 7	RV110	M - 2		
IC30	E - 3	Q4	A - 5 (B)	Q100	C - 5 (B)	Q200	D - 10 (B)	Q291	J - 2	RV11	B - 7	RV111	M - 4		
IC31	E - 4	Q5	A - 5 (B)	Q101	C - 5 (B)	Q201	D - 10 (B)	Q292	J - 2	RV13	B - 10	RV112	F - 9		
IC32	D - 4	Q6	B - 6 (B)	Q102	B - 5	Q202	D - 10 (B)	Q293	J - 2	RV16	E - 3	RV113	K - 2		

NOTE
- ; *-* A SIDE
-(B); *-* B SIDE





SD-19 -A SIDE-
1-631-543-11 (1)
BVS-3200/3200C---SD-19
BVS-3200P/3200CP---SD-19P



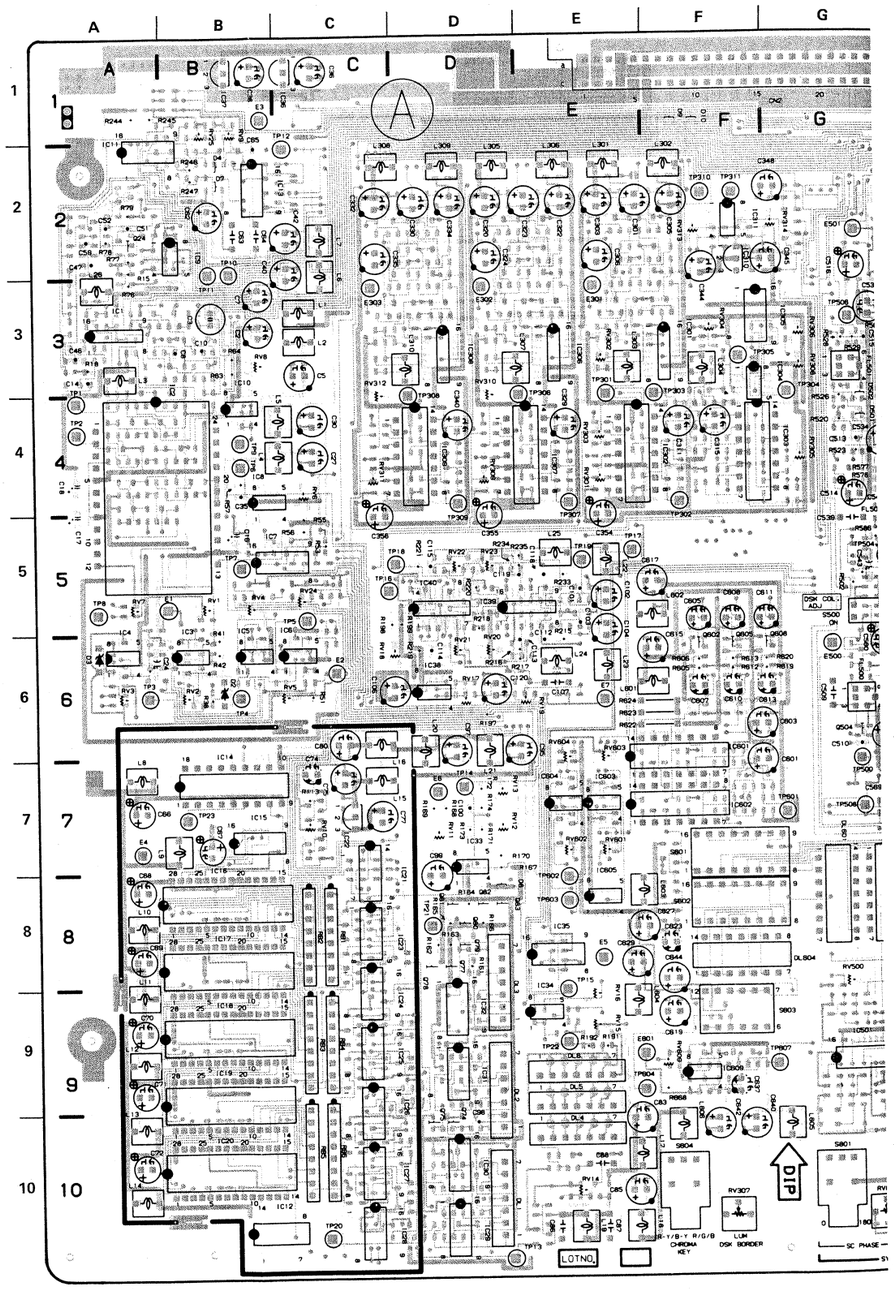
SD-19 -B SIDE-
1-631-543-11 (1)
BVS-3200/3200C---SD-19
BVS-3200P/3200CP---SD-19P

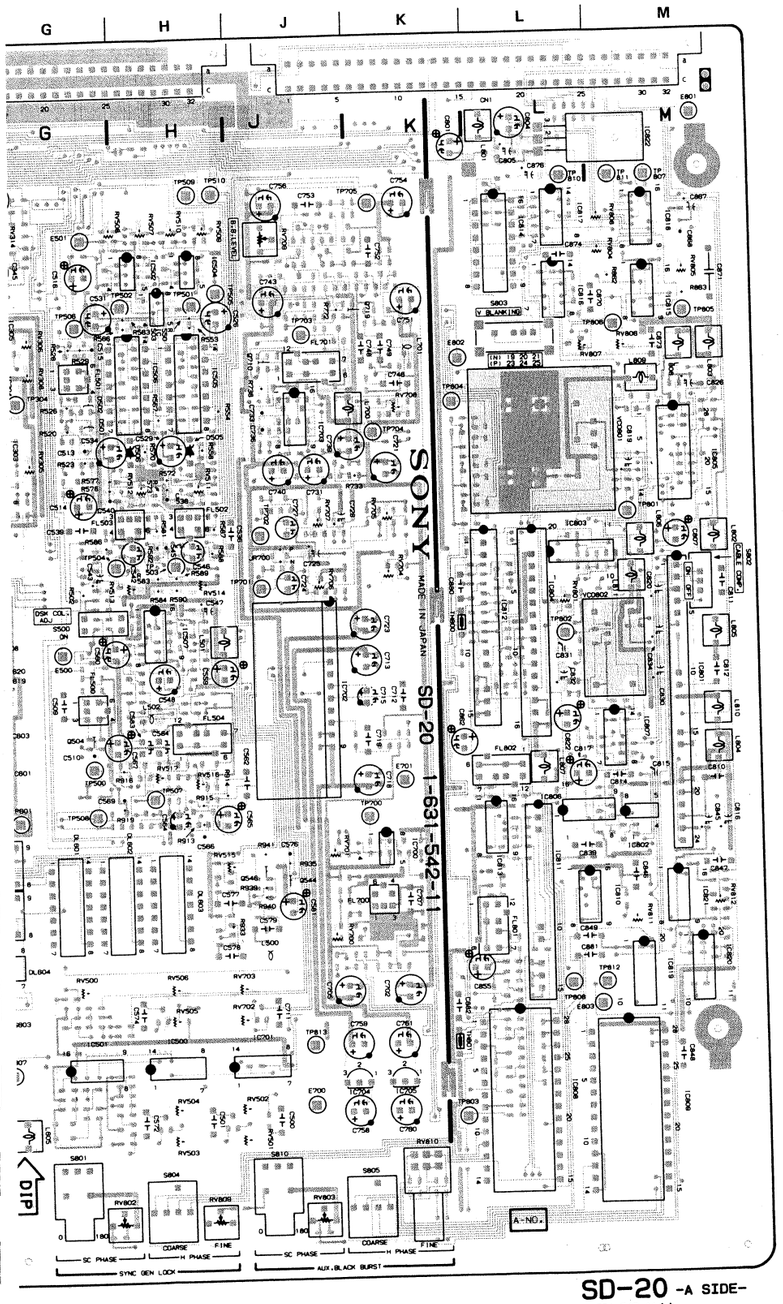
SD-20/20P; SYNC GENERATOR
CHROMA KEY
DOWN STREAM KEY SIGNAL GENERATOR

SD-20/20P (1-631-542-11)

CN1	K - 1	IC30	D - 10	JR812	L - 2 (B)	Q80	D - 8	Q530	H - 5 (B)	Q818	L - 9 (B)	RV805	M - 2	TP805	M - 3
CN2	G - 1	IC31	D - 9	JR813	L - 6 (B)	Q81	D - 8	Q531	H - 6 (B)			RV806	M - 3	TP806	M - 3
		IC32	D - 9	JR814	M - 7 (B)	Q82	D - 8	Q532	H - 6 (B)	RB1	C - 8	RV807	M - 3	TP807	M - 2
DL1	D - 10	IC33	D - 7	JR815	C - 6 (B)	Q83	D - 8	Q533	H - 6 (B)	RB2	C - 8	RV808	M - 2	TP808	L - 9
DL2	D - 9	IC34	E - 8			Q84	E - 10 (B)	Q534	H - 6 (B)	RB3	C - 9	RV809	H - 10	TP810	L - 2
DL3	D - 8	IC35	E - 8	Q1	B - 3 (B)	Q85	E - 10 (B)	Q535	H - 6 (B)	RB4	C - 9	RV810	K - 10	TP811	M - 2
DL4	E - 10	IC36	C - 1	Q2	A - 3 (B)	Q86	E - 10 (B)	Q536	H - 7 (B)	RB5	C - 10	RV811	M - 8	TP812	M - 8
DL5	E - 9	IC37	B - 1	Q3	B - 3 (B)	Q87	E - 9 (B)	Q537	H - 7 (B)	RB6	C - 10	RV812	M - 8	TP813	J - 9
DL6	E - 9	IC38	D - 6	Q4	B - 3 (B)	Q88	E - 6 (B)	Q538	H - 7 (B)						
DL601	G - 7	IC39	D - 5	Q5	B - 3 (B)	Q89	D - 5 (B)	Q539	H - 6 (B)	RV1	B - 5	S500	G - 5	VCO801	L - 4
DL602	H - 7	IC40	D - 5	Q6	B - 3 (B)	Q90	E - 6 (B)	Q540	H - 7 (B)	RV2	B - 6	S601	F - 7	VCO802	M - 5
DL603	H - 8	IC301	F - 3	Q7	B - 3 (B)	Q91	E - 6 (B)	Q541	H - 10 (B)	RV3	A - 6	S602	F - 8		
		IC302	F - 4	Q8	A - 3 (B)	Q92	E - 6 (B)	Q542	H - 7 (B)	RV4	B - 5	S603	G - 9		
D1	B - 5 (B)	IC303	G - 4	Q9	B - 4 (B)	Q93	D - 6 (B)	Q543	H - 8 (B)	RV5	C - 6	S604	F - 10		
D2	B - 6	IC304	G - 3	Q10	A - 4 (B)	Q94	D - 5 (B)	Q544	J - 8	RV6	C - 4	S801	G - 10		
D3	A - 6	IC305	G - 3	Q11	A - 4 (B)	Q95	D - 5 (B)	Q545	J - 8 (B)	RV7	A - 5	S802	M - 5		
D4	B - 2	IC306	E - 3	Q12	A - 4 (B)	Q96	D - 5 (B)	Q546	J - 7	RV8	B - 3	S803	L - 3		
D5	B - 2 (B)	IC307	E - 4	Q13	B - 4 (B)	Q97	D - 5 (B)	Q601	F - 6 (B)	RV9	B - 1	S804	H - 10		
D6	B - 2 (B)	IC308	D - 3	Q14	A - 5 (B)	Q98	E - 5 (B)	Q602	F - 6	RV10	C - 7	S805	K - 10		
D7	B - 2	IC309	D - 4	Q15	A - 4 (B)	Q99	E - 5 (B)	Q603	F - 6 (B)	RV11	D - 7	S810	J - 10		
D8	D - 8	IC311	F - 2	Q16	B - 4 (B)	Q100	B - 5 (B)	Q604	F - 6 (B)	RV12	D - 7				
D9	F - 1	IC500	H - 9	Q17	A - 5 (B)	Q101	B - 5 (B)	Q605	F - 6	RV13	D - 7	TH800	K - 5		
D10	F - 1	IC501	G - 9	Q18	B - 6 (B)	Q102	C - 5 (B)	Q606	F - 6 (B)	RV14	E - 10	TH801	K - 9		
D500	H - 10 (B)	IC502	H - 2	Q19	B - 6 (B)	Q103	C - 5 (B)	Q607	G - 6 (B)	RV15	E - 9				
D501	G - 4	IC503	H - 3	Q20	B - 6 (B)	Q105	A - 6 (B)	Q608	G - 6	RV16	E - 9	TP1	A - 3		
D502	G - 4	IC504	H - 2	Q21	A - 3	Q301	F - 2 (B)	Q609	G - 6 (B)	RV17	D - 6	TP2	A - 4		
D503	H - 10 (B)	IC505	H - 3	Q22	A - 3 (B)	Q302	E - 2 (B)	Q610	F - 7 (B)	RV18	C - 6	TP3	A - 6		
D504	H - 9 (B)	IC506	H - 3	Q23	A - 2 (B)	Q303	F - 2 (B)	Q611	F - 7 (B)	RV19	E - 6	TP4	B - 6		
D505	H - 4	IC507	H - 5	Q24	A - 2	Q304	E - 3 (B)	Q612	G - 7 (B)	RV20	D - 6	TP5	C - 5		
D506	H - 4	IC601	F - 6	Q25	A - 2 (B)	Q305	E - 3 (B)	Q613	F - 9 (B)	RV21	D - 6	TP6	B - 4		
D700	J - 9 (B)	IC602	F - 7	Q26	A - 2 (B)	Q306	F - 3 (B)	Q617	E - 8 (B)	RV22	D - 5	TP7	B - 5		
D801	L - 2 (B)	IC603	E - 7	Q27	A - 2 (B)	Q307	F - 3 (B)	Q618	E - 7 (B)	RV23	D - 5	TP8	A - 5		
D802	L - 5 (B)	IC604	E - 7	Q28	A - 2 (B)	Q308	E - 3 (B)	Q619	E - 7 (B)	RV24	C - 5	TP9	B - 4		
D803	L - 2 (B)	IC605	E - 7	Q29	C - 5 (B)	Q309	F - 4 (B)	Q620	E - 7 (B)	RV25	B - 1	TP10	B - 2		
D804	L - 3 (B)	IC609	F - 9	Q30	C - 5 (B)	Q310	F - 4 (B)	Q621	E - 7 (B)	RV301	E - 4	TP11	B - 3		
D805	L - 3 (B)	IC700	K - 7	Q31	B - 1 (B)	Q311	F - 4 (B)	Q622	E - 7 (B)	RV302	E - 3	TP12	C - 1		
		IC701	J - 9	Q32	B - 2 (B)	Q312	F - 4 (B)	Q630	F - 9 (B)	RV303	E - 4	TP13	D - 10		
E1	B - 5	IC702	J - 6	Q33	B - 2 (B)	Q313	E - 2 (B)	Q631	F - 9 (B)	RV304	F - 3	TP14	D - 7		
E2	C - 6	IC703	J - 4	Q34	B - 2 (B)	Q314	D - 2 (B)	Q632	F - 9 (B)	RV305	G - 4	TP15	C - 5		
E3	A - 1	IC704	J - 9	Q35	C - 7 (B)	Q315	E - 2 (B)	Q633	F - 9 (B)	RV306	G - 3	TP16	C - 5		
E4	A - 7	IC705	K - 9	Q36	C - 7 (B)	Q316	D - 3 (B)	Q700	K - 8 (B)	RV307	F - 10	TP17	E - 5		
E5	E - 8	IC801	M - 6	Q37	C - 8 (B)	Q317	D - 3 (B)	Q701	J - 8 (B)	RV308	G - 3	TP18	D - 5		
E6	D - 7	IC802	M - 7	Q38	C - 8 (B)	Q318	E - 3 (B)	Q702	K - 7 (B)	RV309	D - 4	TP19	E - 5		
E7	E - 6	IC803	L - 5	Q39	C - 8 (B)	Q319	E - 3 (B)	Q703	K - 6 (B)	RV310	D - 3	TP20	C - 10		
E301	E - 3	IC804	L - 5	Q40	C - 8 (B)	Q320	E - 3 (B)	Q704	K - 5 (B)	RV311	C - 4	TP21	D - 8		
E302	D - 3	IC805	M - 4	Q41	C - 9 (B)	Q321	E - 4 (B)	Q705	J - 5 (B)	RV312	C - 3	TP22	E - 9		
E303	C - 3	IC806	L - 7	Q42	C - 9 (B)	Q322	D - 2 (B)	Q706	J - 5 (B)	RV313	F - 2	TP23	B - 7		
E500	G - 6	IC807	M - 6	Q43	C - 9 (B)	Q323	C - 2 (B)	Q710	J - 3	RV314	G - 2	TP301	E - 3		
E501	G - 2	IC808	L - 9	Q44	C - 9 (B)	Q324	D - 2 (B)	Q711	J - 4 (B)	RV500	G - 8	TP302	F - 4		
		IC809	M - 9	Q45	C - 10 (B)	Q325	C - 3 (B)	Q712	J - 4 (B)	RV501	J - 10	TP303	F - 3		
FL700	K - 8	IC810	M - 8	Q46	C - 10 (B)	Q326	D - 3 (B)	Q713	J - 3 (B)	RV502	J - 9	TP304	G - 3		
FL701	J - 3	IC811	L - 7	Q47	C - 10 (B)	Q327	D - 3 (B)	Q714	J - 3 (B)	RV503	H - 10	TP305	F - 3		
FL801	L - 8	IC812	L - 5	Q48	C - 10 (B)	Q328	D - 3 (B)	Q715	J - 3 (B)	RV504	H - 9	TP306	E - 4		
FL802	L - 6	IC813	L - 7	Q49	C - 8 (B)	Q329	D - 3 (B)	Q716	J - 3 (B)	RV505	H - 9	TP307	E - 4		
		IC814	L - 2	Q50	C - 8 (B)	Q330	D - 4 (B)	Q717	K - 4 (B)	RV506	H - 8	TP308	D - 4		
IC1	A - 3	IC815	M - 3	Q51	C - 9 (B)	Q331	G - 2 (B)	Q718	K - 3 (B)	RV507	H - 2	TP309	D - 5		
IC2	B - 3	IC816	L - 3	Q52	C - 9 (B)	Q500	G - 5 (B)	Q719	K - 3	RV508	H - 2	TP310	F - 2		
IC3	B - 5	IC817	L - 2	Q53	C - 10 (B)	Q501	G - 5 (B)	Q720	K - 3 (B)	RV509	H - 2	TP311	F - 2		
IC4	A - 5	IC818	M - 2	Q54	D - 10 (B)	Q502	G - 6 (B)	Q721	J - 3 (B)	RV510	H - 2	TP500	G - 7		
IC5	B - 5	IC819	M - 8	Q55	C - 10 (B)	Q503	G - 6 (B)	Q722	J - 3 (B)	RV511	H - 4	TP501	H - 3		
IC6	C - 5	IC820	M - 8	Q56	D - 10 (B)	Q504	G - 6	Q723	J - 3 (B)	RV512	H - 4	TP502	H - 3		
IC7	B - 5	IC821	M - 8	Q57	D - 10 (B)	Q506	G - 4 (B)	Q724	J - 2 (B)	RV513	G - 5	TP503	H - 5		
IC8	B - 4	IC822	M - 2	Q58	D - 10 (B)	Q507	G - 4 (B)	Q725	K - 2 (B)	RV514	H - 5	TP504	G - 5		
IC9	B - 2			Q59	D - 10 (B)	Q508	G - 4 (B)	Q726	J - 2 (B)	RV515	H - 7	TP505	J - 3		
IC10	B - 3	JR1	B - 8 (B)	Q60	D - 10 (B)	Q509	G - 4 (B)	Q727	J - 2 (B)	RV516	H - 7	TP506	G - 3		
IC11	A - 2	JR2	B - 8 (B)	Q61	D - 10 (B)	Q510	G - 3 (B)	Q728	K - 2 (B)	RV517	H - 7	TP507	H - 7		
IC12	B - 10	JR3	B - 9 (B)	Q62	D - 10 (B)	Q512	G - 2 (B)	Q729	J - 2 (B)	RV601	E - 7	TP508	G - 7		
IC13	C - 2	JR4	B - 9 (B)	Q63	D - 10 (B)	Q513	H - 2 (B)	Q730	K - 3 (B)	RV602	E - 7	TP509	H - 2		
IC14	B - 6	JR5	B - 10 (B)	Q64	D - 10 (B)	Q514	H - 3 (B)	Q801	L - 7 (B)	RV603	E - 6	TP510	H - 2		
IC15	B - 7	JR7	D - 9 (B)	Q65	D - 10 (B)	Q515	H - 3 (B)	Q802	M - 7 (B)	RV604	E - 6	TP601	G - 7		
IC16	B - 7	JR8	D - 9 (B)	Q66	D - 9 (B)	Q516	H - 3 (B)	Q803	K - 7 (B)	RV609	F - 9	TP602	E - 8		
IC17	B - 8	JR9	D - 10 (B)	Q67	D - 9 (B)	Q517	H - 4 (B)	Q804	L - 9 (B)	RV700	J - 8	TP603	E - 8		
IC18	B - 9	JR700	J - 5	Q68	D - 9 (B)	Q518	H - 3 (B)	Q805	L - 6 (B)	RV701	J - 7	TP604	E - 9		
IC19	B - 9	JR801	L - 7 (B)	Q69	D - 9 (B)	Q519	H - 3 (B)	Q806	K - 4 (B)	RV702	J - 9	TP607	G - 9		
IC20	B - 10	JR802	L - 7 (B)	Q70	D - 9 (B)	Q520	H - 3 (B)	Q807	K - 4 (B)	RV703	J - 8	TP700	K - 7		
IC21	D - 8	JR803	I - 6 (B)	Q71	D - 9 (B)	Q521	H - 4 (B)	Q808	L - 4 (B)	RV704	K - 5	TP701	J - 5		
IC22	C - 7	JR804	L - 5 (B)	Q72	D - 8 (B)	Q522	H - 5 (B)	Q809	M - 4 (B)	RV705	K - 4	TP702	J - 5		
IC23	D - 8	JR805	M - 5 (B)	Q73	D - 8 (B)	Q523	G - 5 (B)	Q810	M - 4 (B)	RV706	J - 5	TP703	J - 3		
IC24	D - 9	JR806	M - 5 (B)	Q74	D - 10	Q524	H - 5 (B)	Q811	M - 6 (B)	RV708	K - 4	TP704	K - 4		
IC25	D - 9	JR807	L - 5 (B)	Q75	D - 10	Q525	H - 5 (B)	Q812	M - 8 (B)	RV709	J - 2	TP705	K - 2		
IC26	D - 9	JR808	M - 4 (B)	Q76	D - 9 (B)	Q526	H - 4 (B)	Q813	M - 8 (B)	RV801	L - 5	TP801	M - 4		
IC27	D - 10	JR809	M - 4 (B)	Q77	D - 8	Q527	H - 4 (B)	Q815	K - 5 (B)	RV802	G - 10	TP802	L - 5		
IC28	D - 10	JR810	M - 6 (B)	Q78	D - 8	Q528	G - 4 (B)	Q816	L - 5 (B)	RV803	J - 10	TP803	K - 9		
IC29	D - 10	JR811	L - 2 (B)	Q79	D - 8	Q529	G - 4 (B)	Q817	L - 9 (B)	RV804	M - 2	TP804	K - 3		

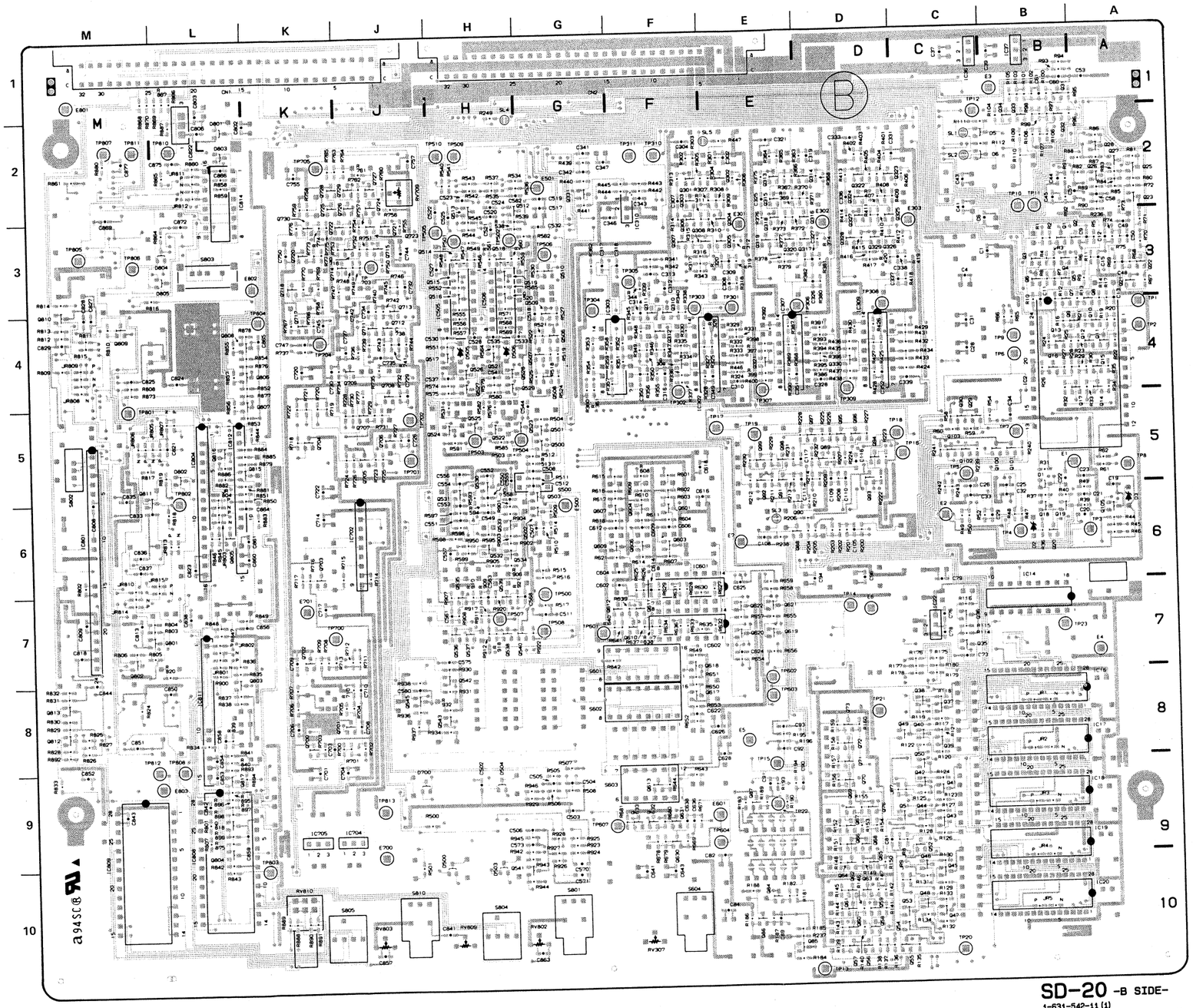
NOTE
- ; *-* A SIDE
- (B); *-* B SIDE





SD-20 -A SIDE-

1-631-542-11 (1)
BVS-3100/3200/3200C-----SD-20
BVS-3100P/3200P/3200CP---SD-20P



SD-20 -B SIDE-

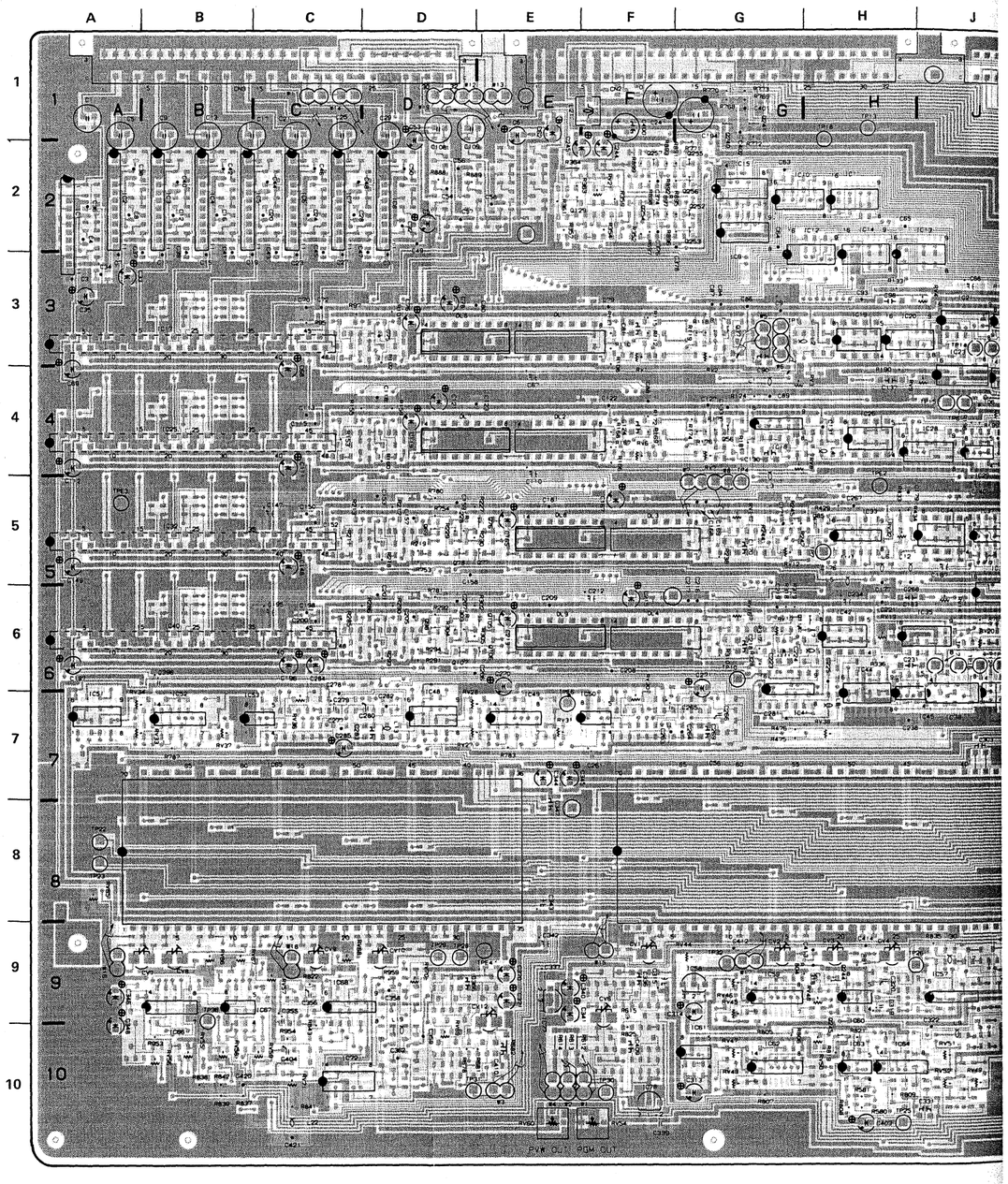
1-631-542-11 (1)
BVS-3100/3200/3200C-----SD-20
BVS-3100P/3200P/3200CP---SD-20P

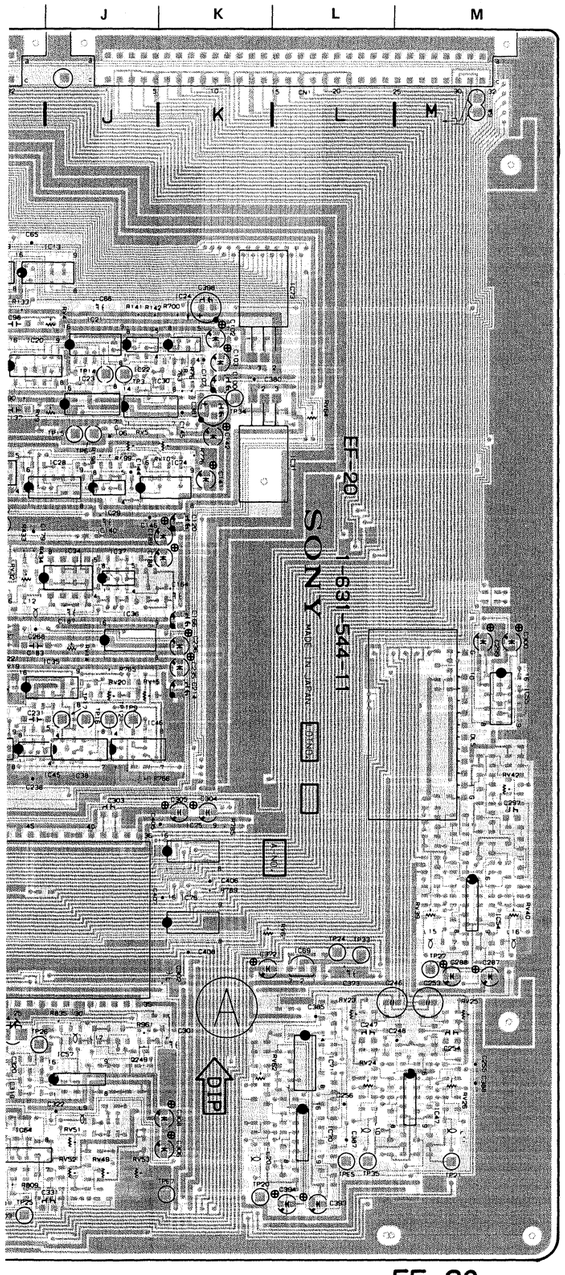
EF-20/20P (1-631-544-11)

CN1	L - 1	IC57	J - 9	Q62	J - 4 (B)	Q146	B - 7 (B)	Q232	L - 10 (B)	RV68	C - 9
CN2	F - 1	IC58	G - 9	Q63	C - 5 (B)	Q147	B - 7 (B)	Q234	J - 9 (B)	RV69	D - 10
CN3	B - 1	IC59	G - 9	Q64	C - 5 (B)	Q148	C - 7 (B)	Q235	F - 10 (B)	RV70	D - 9
		IC60	H - 9	Q65	C - 5 (B)	Q149	C - 7 (B)	Q237	F - 10 (B)	RV71	C - 10
CV1	F - 9	IC61	G - 10	Q66	D - 5 (B)	Q150	C - 7 (B)	Q238	D - 10 (B)		
CV2	G - 9	IC62	G - 10	Q67	D - 5 (B)	Q151	D - 7 (B)	Q240	G - 1	TPE1	G - 6
CV3	H - 9	IC63	H - 10	Q68	D - 5 (B)	Q152	D - 7 (B)	Q241	G - 1	TPE2	H - 5
CV4	H - 9	IC64	H - 10	Q69	D - 5	Q153	C - 7 (B)	Q242	C - 9 (B)	TPE3	A - 5
CV6	F - 9	IC65	C - 7	Q70	D - 5 (B)	Q154	M - 7 (B)	Q243	H - 9 (B)	TPE4	D - 9
CV7	B - 9	IC66	B - 9	Q71	D - 5 (B)	Q155	M - 7 (B)	Q244	H - 9	TPE5	L - 10
CV8	B - 9	IC67	B - 9	Q72	D - 5 (B)	Q156	M - 8 (B)	Q245	H - 10	TPE6	E - 7
CV9	C - 9	IC68	C - 9	Q73	E - 5 (B)	Q157	M - 8 (B)	Q246	H - 10 (B)	TPE7	K - 10
CV10	D - 9	IC69	L - 8	Q74	E - 5 (B)	Q158	M - 8 (B)	Q247	C - 9 (B)		
CV12	E - 9	IC70	L - 10	Q75	D - 5 (B)	Q159	M - 8 (B)	Q248	C - 9 (B)	TP1	G - 3
		IC71	L - 9	Q76	D - 5	Q160	M - 8 (B)	Q249	J - 9	TP3	J - 3
DL1	E - 3	IC72	C - 10	Q77	D - 5	Q161	M - 7 (B)	Q250	B - 10 (B)	TP4	G - 4
DL2	E - 4	IC73	K - 3	Q78	D - 5	Q162	M - 7 (B)	Q251	B - 10	TP6	J - 4
DL3	F - 5	IC74	K - 4	Q79	G - 5 (B)	Q163	M - 7 (B)	Q252	G - 2	TP7	H - 5
DL4	F - 6	IC75	K - 7	Q80	G - 5 (B)	Q164	M - 7 (B)	Q253	G - 2	TP9	J - 6
DL5	M - 6	IC76	K - 8	Q81	G - 5 (B)	Q165	M - 7 (B)	Q254	F - 2	TP10	G - 6
DL6	D - 3	IC77	E - 9	Q82	G - 5 (B)	Q166	M - 7 (B)	Q255	G - 2	TP12	J - 6
DL7	D - 3	IC78	F - 10	Q83	G - 5 (B)	Q167	M - 6 (B)	Q256	G - 2	TP13	H - 1
DL8	E - 5			Q84	G - 5 (B)	Q168	K - 9 (B)	Q257	F - 2	TP14	J - 3
DL9	E - 6	Q1	A - 2 (B)	Q85	H - 5	Q169	J - 9 (B)			TP15	J - 4
		Q2	A - 2 (B)	Q86	H - 5 (B)	Q170	G - 9 (B)	RV1	F - 4	TP16	J - 6
D1	F - 1 (B)	Q3	A - 2 (B)	Q87	H - 5 (B)	Q171	G - 9 (B)	RV2	G - 4	TP17	J - 6
D2	F - 1 (B)	Q4	A - 2 (B)	Q88	H - 5 (B)	Q172	H - 9 (B)	RV3	H - 4	TP18	H - 1
D4	A - 7 (B)	Q5	B - 2 (B)	Q89	H - 5 (B)	Q173	H - 9 (B)	RV4	J - 3	TP20	K - 10
D6	M - 6 (B)	Q6	B - 2 (B)	Q90	J - 6 (B)	Q174	J - 10 (B)	RV5	J - 4	TP21	M - 10
D7	D - 6 (B)	Q7	B - 2 (B)	Q91	J - 5 (B)	Q175	J - 10 (B)	RV6	F - 4	TP22	A - 8
D8	C - 6 (B)	Q8	B - 2 (B)	Q92	C - 6 (B)	Q176	J - 10 (B)	RV7	G - 4	TP23	A - 8
		Q9	C - 2 (B)	Q93	C - 6 (B)	Q177	J - 10 (B)	RV8	H - 4	TP24	L - 8
IC1	A - 2	Q10	C - 2 (B)	Q94	C - 6 (B)	Q178	H - 10 (B)	RV9	H - 4	TP25	H - 10
IC2	A - 2	Q11	C - 2 (B)	Q95	D - 6 (B)	Q179	J - 10 (B)	RV10	K - 4	TP26	H - 9
IC3	B - 2	Q12	C - 2 (B)	Q96	D - 6 (B)	Q180	F - 9 (B)	RV11	G - 5	TP27	M - 8
IC4	B - 2	Q13	C - 2 (B)	Q97	D - 6 (B)	Q181	F - 9 (B)	RV12	G - 5	TP28	D - 9
IC5	B - 2	Q14	D - 2 (B)	Q98	D - 6	Q182	F - 10 (B)	RV14	J - 6	TP29	D - 9
IC6	C - 2	Q15	D - 2 (B)	Q99	D - 6 (B)	Q183	F - 10 (B)	RV15	J - 6	TP30	F - 10
IC7	C - 2	Q16	D - 2 (B)	Q100	D - 6 (B)	Q184	F - 9 (B)	RV16	G - 6	TP31	D - 10
IC8	D - 2	Q17	D - 2 (B)	Q101	D - 6 (B)	Q185	F - 9 (B)	RV17	G - 6	TP32	G - 9
IC9	G - 2	Q18	D - 2 (B)	Q102	E - 6 (B)	Q186	F - 9 (B)	RV19	H - 6	TP33	L - 8
IC10	G - 2	Q19	D - 2 (B)	Q103	E - 6 (B)	Q187	F - 9 (B)	RV20	J - 6	TP34	K - 4
IC11	H - 2	Q20	D - 2 (B)	Q104	D - 6 (B)	Q189	F - 10 (B)	RV21	F - 2	TP35	L - 10
IC12	H - 3	Q21	E - 2 (B)	Q105	D - 6	Q190	F - 10 (B)	RV23	L - 9	TP36	B - 9
IC13	J - 3	Q22	E - 2 (B)	Q106	D - 6	Q191	F - 10 (B)	RV24	L - 9		
IC14	H - 3	Q23	E - 2 (B)	Q107	D - 6	Q193	A - 10 (B)	RV25	M - 9		
IC15	G - 2	Q24	E - 2 (B)	Q108	G - 6 (B)	Q194	A - 9 (B)	RV26	M - 9		
IC17	B - 3	Q25	C - 3 (B)	Q109	G - 6 (B)	Q195	C - 9 (B)	RV27	D - 7		
IC18	G - 4	Q26	C - 3 (B)	Q110	G - 6 (B)	Q196	C - 9 (B)	RV28	D - 7		
IC19	H - 3	Q27	C - 3 (B)	Q111	G - 6 (B)	Q197	C - 10 (B)	RV30	F - 6		
IC20	H - 3	Q28	D - 3 (B)	Q112	G - 6 (B)	Q198	C - 10 (B)	RV31	E - 7		
IC21	J - 3	Q29	D - 3 (B)	Q113	G - 6 (B)	Q199	D - 9 (B)	RV32	H - 5		
IC22	J - 3	Q30	D - 3 (B)	Q114	G - 6	Q200	D - 10 (B)	RV33	B - 7		
IC23	J - 4	Q31	F - 3 (B)	Q115	G - 6 (B)	Q201	D - 10 (B)	RV34	A - 7		
IC24	K - 3	Q32	F - 3 (B)	Q116	G - 6 (B)	Q202	D - 9 (B)	RV36	C - 7		
IC25	B - 4	Q33	F - 3 (B)	Q117	G - 7 (B)	Q203	D - 10 (B)	RV37	B - 7		
IC26	H - 4	Q34	F - 3 (B)	Q118	H - 7 (B)	Q204	D - 10 (B)	RV38	H - 7		
IC28	J - 4	Q35	F - 3 (B)	Q119	H - 6 (B)	Q205	D - 9 (B)	RV39	M - 8		
IC29	J - 4	Q36	F - 3 (B)	Q120	J - 7 (B)	Q206	D - 9 (B)	RV40	M - 8		
IC30	J - 4	Q37	G - 3	Q121	F - 2 (B)	Q207	D - 10 (B)	RV42	M - 7		
IC31	K - 4	Q38	G - 3 (B)	Q122	F - 2 (B)	Q208	D - 10 (B)	RV43	G - 10		
IC32	B - 5	Q39	G - 3 (B)	Q123	E - 2 (B)	Q209	D - 10 (B)	RV44	G - 9		
IC33	H - 5	Q40	G - 3 (B)	Q124	E - 2 (B)	Q210	D - 9 (B)	RV45	G - 9		
IC34	J - 5	Q41	H - 3 (B)	Q125	F - 2 (B)	Q211	E - 9 (B)	RV46	G - 9		
IC35	H - 6	Q42	J - 3 (B)	Q126	E - 2 (B)	Q212	E - 9 (B)	RV47	G - 10		
IC36	J - 6	Q43	K - 3 (B)	Q127	E - 2 (B)	Q213	E - 10 (B)	RV48	G - 9		
IC37	J - 5	Q44	C - 4 (B)	Q128	E - 2 (B)	Q214	E - 10 (B)	RV49	J - 10		
IC38	J - 7	Q45	C - 4 (B)	Q129	E - 2	Q215	G - 2 (B)	RV50	H - 10		
IC40	B - 6	Q46	C - 4 (B)	Q130	M - 9 (B)	Q216	G - 2 (B)	RV51	J - 10		
IC41	G - 7	Q47	D - 4 (B)	Q131	L - 9 (B)	Q217	F - 2 (B)	RV52	J - 10		
IC42	H - 6	Q48	D - 4 (B)	Q132	M - 10 (B)	Q218	F - 2 (B)	RV53	J - 10		
IC44	H - 7	Q49	D - 4 (B)	Q133	M - 10 (B)	Q219	F - 2 (B)	RV54	F - 10		
IC45	H - 7	Q50	F - 4 (B)	Q134	M - 9 (B)	Q220	F - 2 (B)	RV55	B - 10		
IC46	J - 7	Q51	F - 4 (B)	Q135	M - 9 (B)	Q221	F - 2 (B)	RV56	B - 10		
IC47	M - 9	Q52	F - 4 (B)	Q136	M - 10 (B)	Q222	F - 2 (B)	RV57	C - 9		
IC48	D - 7	Q53	F - 4 (B)	Q137	M - 10 (B)	Q223	L - 9 (B)	RV58	B - 10		
IC49	E - 7	Q54	F - 4 (B)	Q138	E - 7 (B)	Q224	L - 9 (B)	RV59	C - 10		
IC50	F - 7	Q55	F - 4 (B)	Q139	E - 7 (B)	Q225	L - 9 (B)	RV60	E - 10		
IC51	A - 7	Q56	G - 4	Q140	F - 7 (B)	Q226	L - 10 (B)	RV61	K - 8		
IC52	B - 7	Q57	G - 4 (B)	Q141	F - 7 (B)	Q227	L - 10 (B)	RV62	K - 9		
IC53	B - 7	Q58	G - 4 (B)	Q142	G - 7 (B)	Q228	L - 9 (B)	RV64	L - 4		
IC54	M - 8	Q59	H - 4 (B)	Q143	G - 7 (B)	Q229	L - 9 (B)	RV65	A - 8		
IC55	M - 6	Q60	H - 4 (B)	Q144	G - 7 (B)	Q230	K - 9 (B)	RV66	B - 9		
IC56	G - 8	Q61	J - 4 (B)	Q145	F - 7 (B)	Q231	L - 10 (B)	RV67	B - 9		

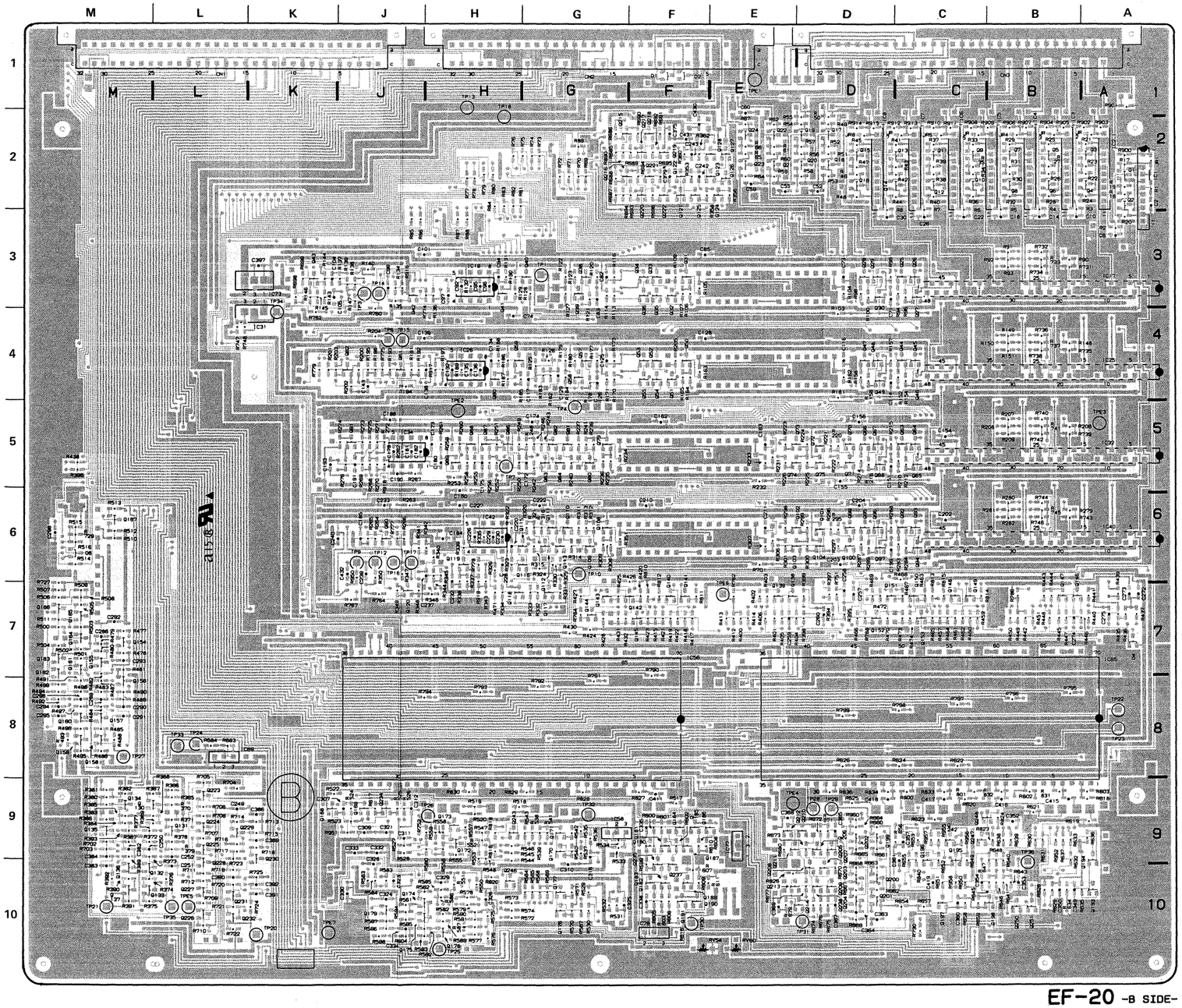
NOTE
- ; *-*A SIDE
-(B); *-*B SIDE

EF-20/20P; Y (COMPOSITE) SIGNAL PROCESSOR





EF-20 -A SIDE-
1-631-544-11 (1)
BVS-3200/3200C---- EF-20
BVS-3200P/3200CP--- EF-20P



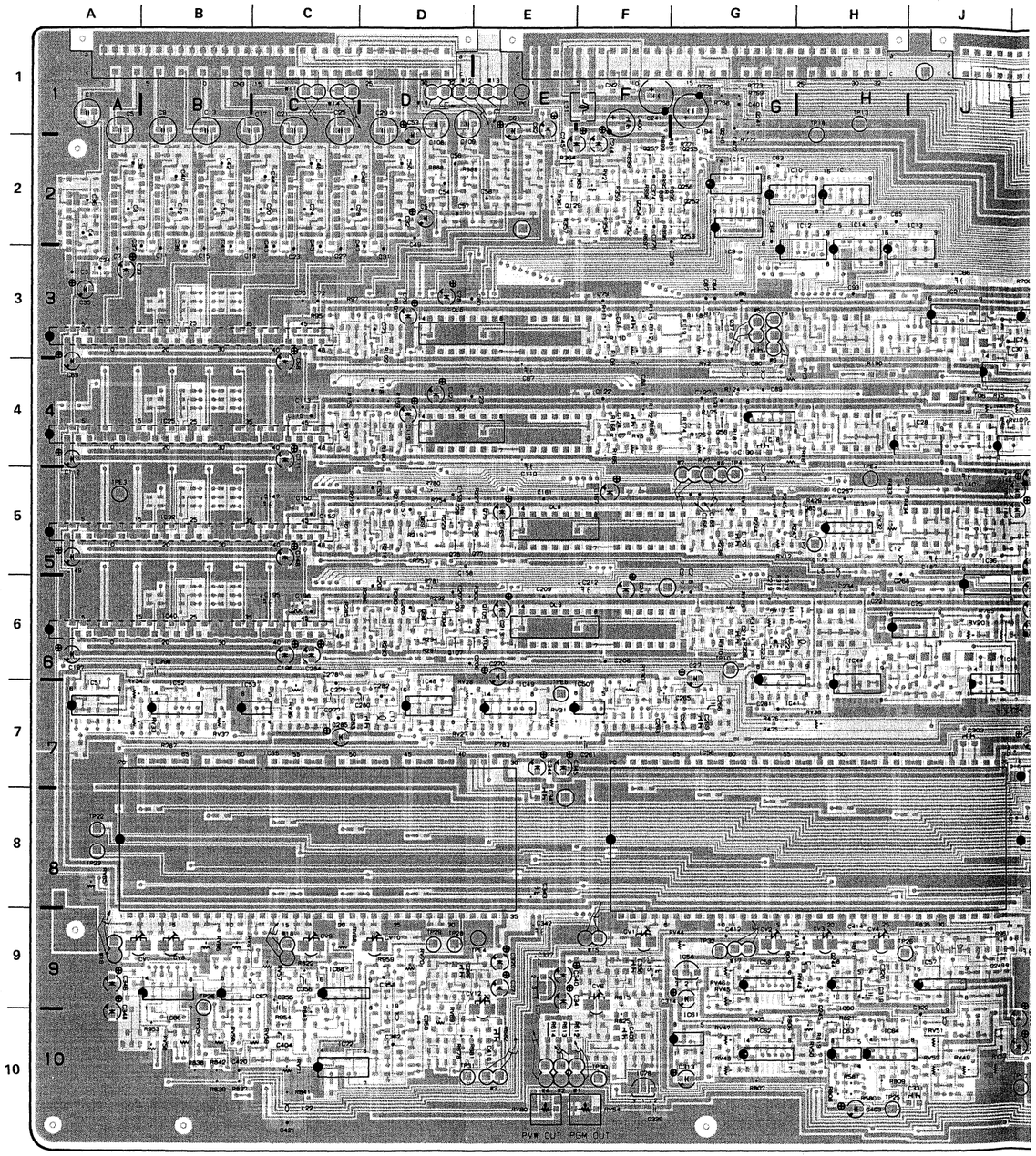
EF-20 -B SIDE-
1-631-544-11 (1)
BVS-3200/3200C---- EF-20
BVS-3200P/3200CP--- EF-20P

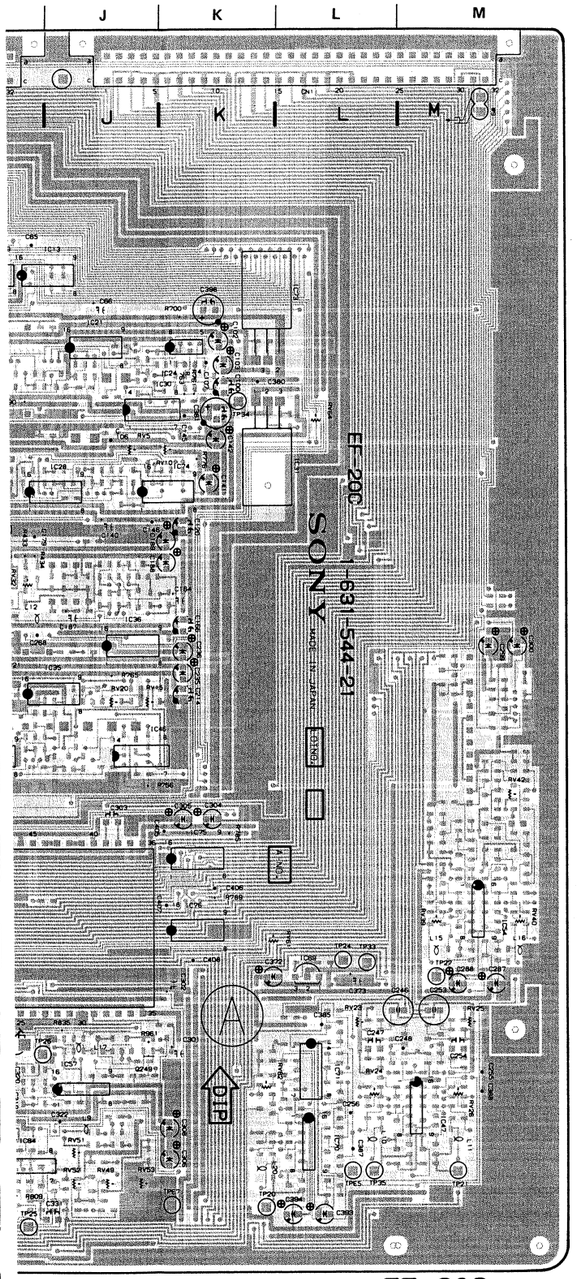
EF-20C/20CP (1-631-544-21)

CN1	L - 1	JR4	B - 2 (B)	Q85	H - 5	Q177	G - 10 (B)	RV20	J - 6
CN2	F - 1	JR5	C - 2 (B)	Q86	H - 5 (B)	Q178	H - 10 (B)	RV21	F - 2
CN3	B - 1	JR6	C - 2 (B)	Q87	H - 5 (B)	Q179	J - 10 (B)	RV23	L - 9
		JR7	D - 2 (B)	Q90	C - 6 (B)	Q180	F - 9 (B)	RV24	L - 9
CV1	F - 9	JR8	D - 2 (B)	Q92	C - 6 (B)	Q181	F - 9 (B)	RV25	M - 9
CV2	G - 9			Q93	C - 6 (B)	Q182	F - 10 (B)	RV26	M - 9
CV3	H - 9	Q1	A - 2 (B)	Q94	D - 6 (B)	Q183	F - 10 (B)	RV27	D - 7
CV4	H - 9	Q2	A - 2 (B)	Q95	D - 6 (B)	Q184	F - 9 (B)	RV28	D - 7
CV6	F - 9	Q3	A - 2 (B)	Q96	D - 6 (B)	Q185	F - 9 (B)	RV30	F - 7
CV7	B - 9	Q4	A - 2 (B)	Q97	D - 6	Q186	F - 9 (B)	RV31	E - 7
CV8	B - 9	Q5	B - 2 (B)	Q98	D - 6 (B)	Q187	F - 9 (B)	RV32	H - 5
CV9	C - 9	Q6	B - 2 (B)	Q99	D - 6 (B)	Q189	F - 10 (B)	RV33	B - 7
CV10	D - 9	Q7	B - 2 (B)	Q100	D - 6 (B)	Q190	F - 10 (B)	RV34	A - 7
CV12	E - 9	Q8	B - 2 (B)	Q101	D - 6 (B)	Q191	F - 10 (B)	RV36	C - 7
		Q9	C - 2 (B)	Q102	E - 6 (B)	Q193	A - 10 (B)	RV37	B - 7
DL6	D - 3	Q10	C - 2 (B)	Q103	E - 5 (B)	Q194	A - 9 (B)	RV38	H - 7
DL7	D - 4	Q11	C - 2 (B)	Q104	D - 6 (B)	Q195	C - 9 (B)	RV39	M - 8
DL8	E - 5	Q12	C - 2 (B)	Q105	E - 6	Q196	C - 9 (B)	RV40	M - 8
DL9	E - 6	Q13	C - 2 (B)	Q106	E - 6	Q197	C - 10 (B)	RV42	M - 7
		Q14	D - 2 (B)	Q107	D - 6	Q198	C - 10 (B)	RV43	G - 10
D1	F - 1 (B)	Q15	D - 2 (B)	Q108	G - 6 (B)	Q199	D - 9 (B)	RV44	G - 9
D2	F - 1 (B)	Q16	D - 2 (B)	Q109	G - 6 (B)	Q200	D - 10 (B)	RV45	G - 9
D4	A - 7 (B)	Q17	D - 2 (B)	Q110	G - 6 (B)	Q201	D - 10 (B)	RV46	G - 9
D6	M - 6 (B)	Q18	D - 2 (B)	Q111	G - 6 (B)	Q202	D - 9 (B)	RV47	G - 10
D7	D - 6 (B)	Q19	D - 2 (B)	Q112	G - 6 (B)	Q203	D - 10 (B)	RV48	H - 9
D8	C - 6 (B)	Q20	D - 2 (B)	Q113	G - 6 (B)	Q204	D - 10 (B)	RV49	J - 10
		Q21	E - 2 (B)	Q114	H - 6	Q205	D - 9 (B)	RV50	H - 10
IC9	G - 2	Q22	E - 2 (B)	Q115	H - 6 (B)	Q206	D - 9 (B)	RV51	J - 10
IC10	G - 2	Q23	E - 2 (B)	Q116	H - 6 (B)	Q207	D - 9 (B)	RV52	J - 10
IC11	H - 2	Q24	E - 2 (B)	Q119	H - 6 (B)	Q208	E - 10 (B)	RV53	J - 10
IC12	H - 3	Q25	C - 3 (B)	Q121	F - 2 (B)	Q209	D - 10 (B)	RV54	F - 10
IC13	J - 3	Q26	C - 3 (B)	Q122	F - 2 (B)	Q210	D - 9 (B)	RV55	B - 10
IC14	H - 3	Q27	C - 4 (B)	Q123	F - 2 (B)	Q211	E - 9 (B)	RV56	B - 10
IC15	G - 2	Q28	D - 3 (B)	Q124	F - 2 (B)	Q212	E - 9 (B)	RV57	C - 9
IC17	B - 3	Q29	D - 3 (B)	Q125	F - 2 (B)	Q213	E - 10 (B)	RV58	B - 10
IC18	G - 4	Q30	D - 4 (B)	Q126	E - 2 (B)	Q214	D - 10 (B)	RV59	C - 10
IC21	J - 3	Q31	F - 3 (B)	Q127	E - 2 (B)	Q215	F - 2 (B)	RV60	E - 10
IC25	B - 4	Q32	F - 3 (B)	Q128	F - 2 (B)	Q216	F - 2 (B)	RV61	K - 8
IC28	J - 4	Q33	F - 3 (B)	Q129	E - 2	Q217	F - 2 (B)	RV62	K - 9
IC30	K - 4	Q34	F - 3 (B)	Q130	M - 9 (B)	Q218	F - 2 (B)	RV64	L - 4
IC31	L - 4	Q35	F - 3 (B)	Q131	L - 9 (B)	Q219	F - 2 (B)	RV65	A - 8
IC32	B - 5	Q36	F - 3 (B)	Q132	M - 10 (B)	Q220	F - 2 (B)	RV66	B - 9
IC33	H - 5	Q37	G - 3	Q133	M - 10 (B)	Q221	F - 2 (B)	RV67	B - 9
IC36	J - 6	Q38	G - 3 (B)	Q134	M - 9 (B)	Q222	F - 2 (B)	RV68	C - 9
IC40	B - 6	Q39	G - 3 (B)	Q135	M - 9 (B)	Q223	L - 9 (B)	RV69	D - 10
IC41	G - 6	Q42	J - 3 (B)	Q136	M - 10 (B)	Q224	L - 9 (B)	RV70	D - 9
IC44	H - 6	Q44	C - 4 (B)	Q137	M - 10 (B)	Q225	L - 9 (B)	RV71	C - 10
IC46	J - 6	Q45	C - 4 (B)	Q138	E - 6 (B)	Q226	L - 10 (B)		
IC47	M - 10	Q46	C - 4 (B)	Q139	E - 7 (B)	Q227	L - 10 (B)	TPE1	E - 1
IC48	D - 7	Q47	D - 4 (B)	Q140	F - 7 (B)	Q228	L - 9 (B)	TPE2	H - 5
IC49	E - 7	Q48	D - 4 (B)	Q141	F - 7 (B)	Q229	L - 9 (B)	TPE3	A - 5
IC50	F - 7	Q49	D - 4 (B)	Q142	G - 7 (B)	Q230	K - 9 (B)	TPE4	E - 9
IC51	A - 7	Q50	F - 4 (B)	Q143	G - 7 (B)	Q231	L - 10 (B)	TPE5	L - 10
IC52	B - 7	Q51	F - 4 (B)	Q144	G - 7 (B)	Q232	L - 10 (B)	TPE6	E - 7
IC53	C - 7	Q52	F - 4 (B)	Q145	F - 7 (B)	Q234	J - 9 (B)	TPE7	K - 10
IC54	M - 8	Q53	F - 4 (B)	Q146	B - 6 (B)	Q235	F - 10 (B)		
IC55	M - 6	Q54	F - 4 (B)	Q147	B - 6 (B)	Q237	F - 10 (B)	TP1	G - 3
IC56	G - 8	Q55	F - 4 (B)	Q148	C - 7 (B)	Q238	D - 10 (B)	TP4	G - 5
IC57	J - 9	Q56	G - 4	Q149	C - 7 (B)	Q240	G - 1	TP7	H - 5
IC58	G - 9	Q57	G - 4 (B)	Q150	C - 6 (B)	Q241	G - 1	TP10	G - 6
IC59	G - 9	Q58	G - 4 (B)	Q151	D - 7 (B)	Q242	C - 9 (B)	TP13	H - 1
IC60	H - 9	Q61	J - 4 (B)	Q152	D - 7 (B)	Q243	H - 9 (B)	TP18	H - 1
IC61	G - 10	Q63	C - 5 (B)	Q153	C - 7 (B)	Q244	H - 9	TP20	K - 10
IC62	G - 10	Q64	C - 5 (B)	Q154	M - 7 (B)	Q245	H - 10	TP21	M - 10
IC63	H - 10	Q65	C - 5 (B)	Q155	M - 7 (B)	Q246	H - 10 (B)	TP22	A - 8
IC64	H - 10	Q66	D - 5 (B)	Q156	M - 8 (B)	Q247	C - 9 (B)	TP23	A - 8
IC65	C - 8	Q67	D - 5 (B)	Q157	M - 8 (B)	Q248	C - 9 (B)	TP24	L - 8
IC66	B - 9	Q68	D - 5 (B)	Q158	M - 8 (B)	Q249	J - 9	TP25	H - 10
IC67	B - 9	Q69	D - 5	Q159	M - 8 (B)	Q250	B - 10 (B)	TP26	J - 9
IC68	C - 9	Q70	D - 5 (B)	Q160	M - 8 (B)	Q251	B - 10 (B)	TP27	M - 8
IC69	L - 8	Q71	D - 5 (B)	Q161	M - 7 (B)			TP28	D - 9
IC70	L - 10	Q72	D - 5 (B)	Q162	M - 7 (B)	RV1	F - 3	TP29	D - 9
IC71	L - 9	Q73	E - 5 (B)	Q163	M - 7 (B)	RV2	G - 3	TP30	F - 10
IC72	C - 10	Q74	E - 5 (B)	Q164	M - 7 (B)	RV3	G - 4	TP31	D - 10
IC73	L - 3	Q75	D - 5 (B)	Q165	M - 7 (B)	RV5	J - 4	TP32	G - 9
IC74	K - 4	Q76	E - 5	Q168	K - 9 (B)	RV6	F - 5	TP33	L - 8
IC75	K - 7	Q77	E - 5	Q169	J - 9 (B)	RV7	G - 4	TP34	K - 4
IC76	K - 8	Q78	D - 5	Q170	G - 9 (B)	RV8	G - 4	TP35	L - 10
IC77	E - 9	Q79	G - 5 (B)	Q171	G - 9 (B)	RV10	K - 3	TP36	B - 9
IC78	F - 10	Q80	G - 5 (B)	Q172	H - 9 (B)	RV11	G - 5		
		Q81	G - 5 (B)	Q173	H - 9 (B)	RV12	G - 5		
JR1	A - 2 (B)	Q82	G - 5 (B)	Q174	J - 10 (B)	RV15	J - 6		
JR2	B - 2 (B)	Q83	G - 5 (B)	Q175	J - 10 (B)	RV16	G - 6		
JR3	B - 2 (B)	Q84	G - 5 (B)	Q176	G - 10 (B)	RV17	G - 6		

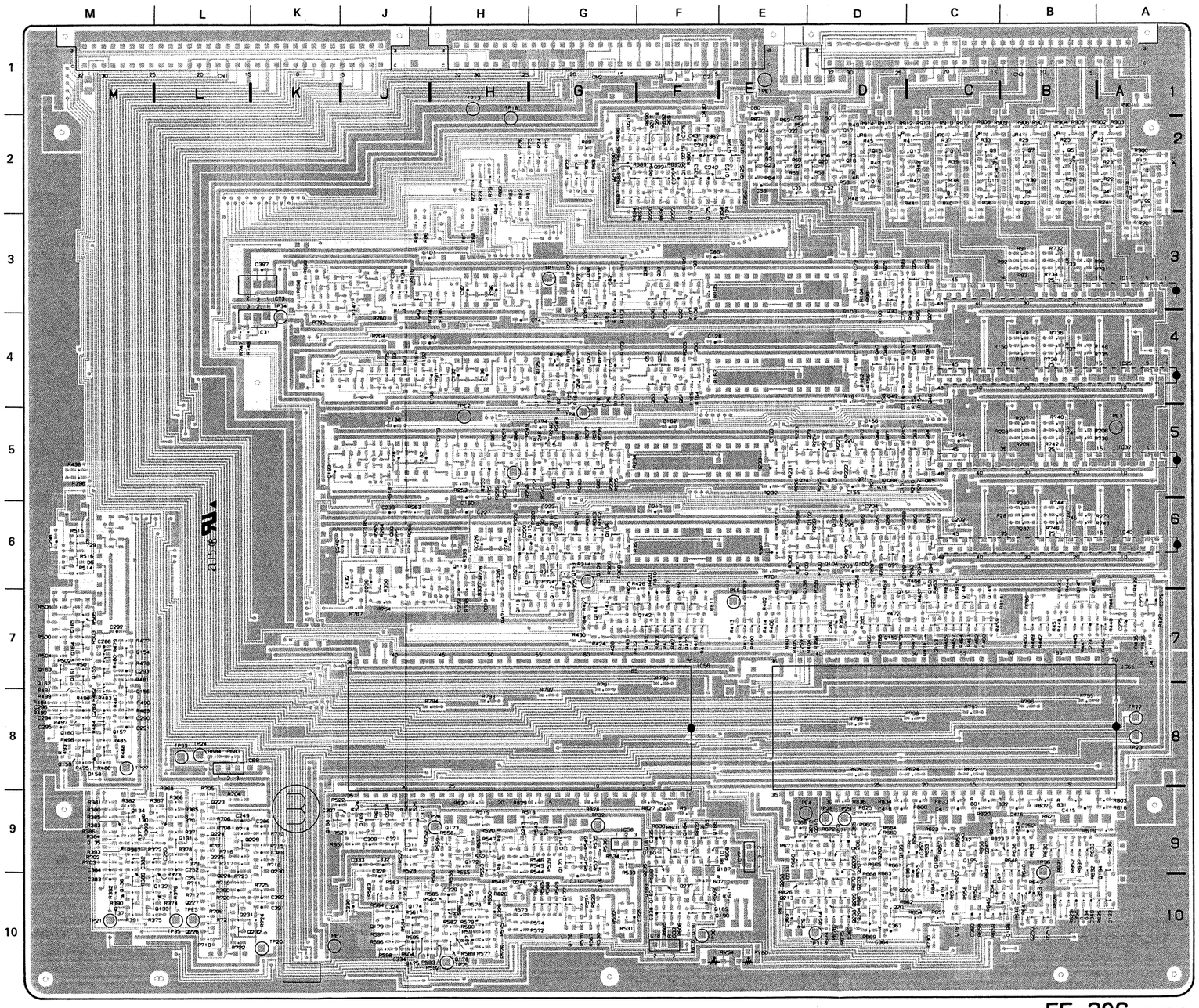
NOTE
- ; *-*A SIDE
-(B); *-*B SIDE

EF-20C/20CP; B-Y (R-Y) SIGNAL PROCESSOR



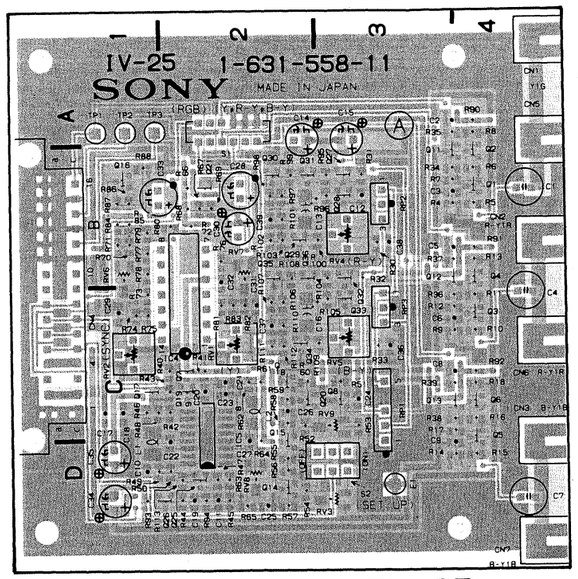


EF-20C -A SIDE-
1-631-544-21 (1)
BVS-3200C---EF-20C
BVS-3200CP---EF-20CP

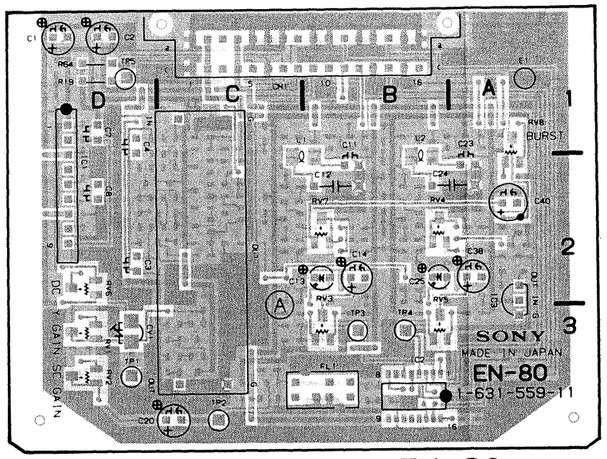


EF-20C -B SIDE-
1-631-544-21 (1)
BVS-3200C---EF-20C
BVS-3200CP---EF-20CP

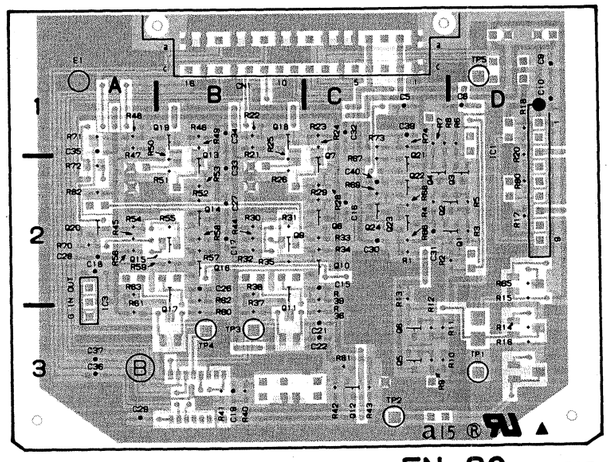
EN-80/80P; ENCODER
IV-25/25P; MODE SET FOR INPUT VIDEO SIGNAL



IV-25 -A SIDE-
1-631-558-11 (1)
BVS-3200C----IV-25
BVS-3200CP---IV-25P

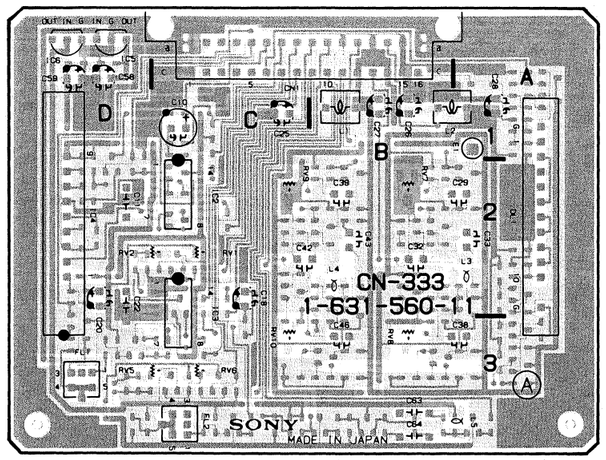


EN-80 -A SIDE-
1-631-559-11 (1)
BVS-3200C----EN-80
BVS-3200CP---EN-80P

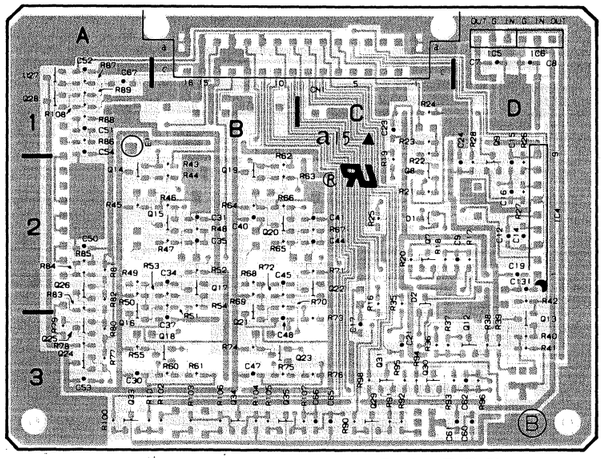


EN-80 -B SIDE-
1-631-559-11 (1)
BVS-3200C----EN-80
BVS-3200CP---EN-80P

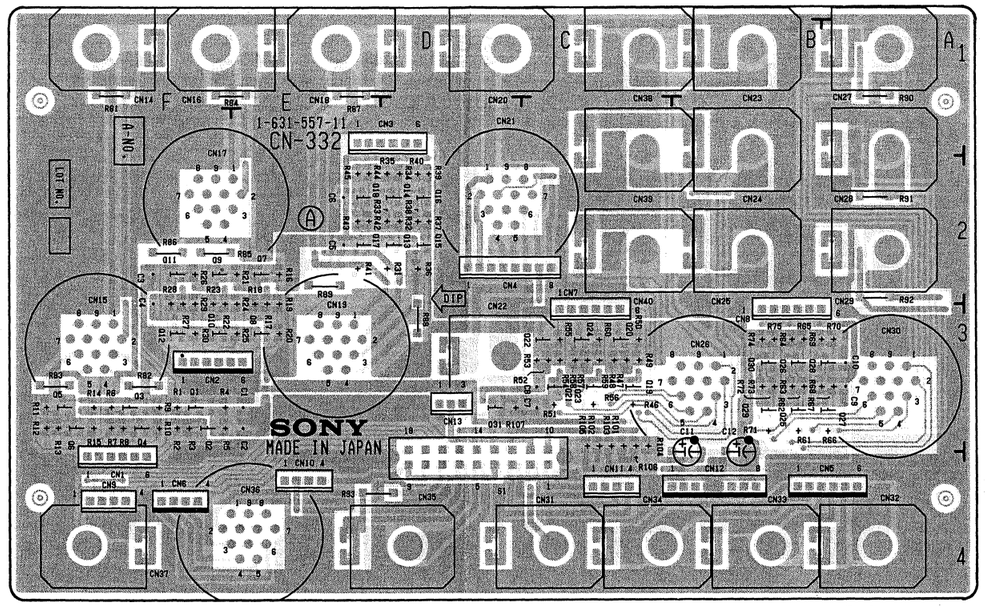
CN-332; CONNECTOR BOARD
CN-333/333P; SYNC SEPARATOR
LE-55; LED



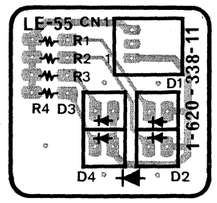
CN-333 -A SIDE-
1-631-560-11 (1)
BVS-3200C-----CN-333
BVS-3200CP----CN-333P



CN-333 -B SIDE-
1-631-560-11 (1)
BVS-3200C-----CN-333
BVS-3200CP----CN-333P

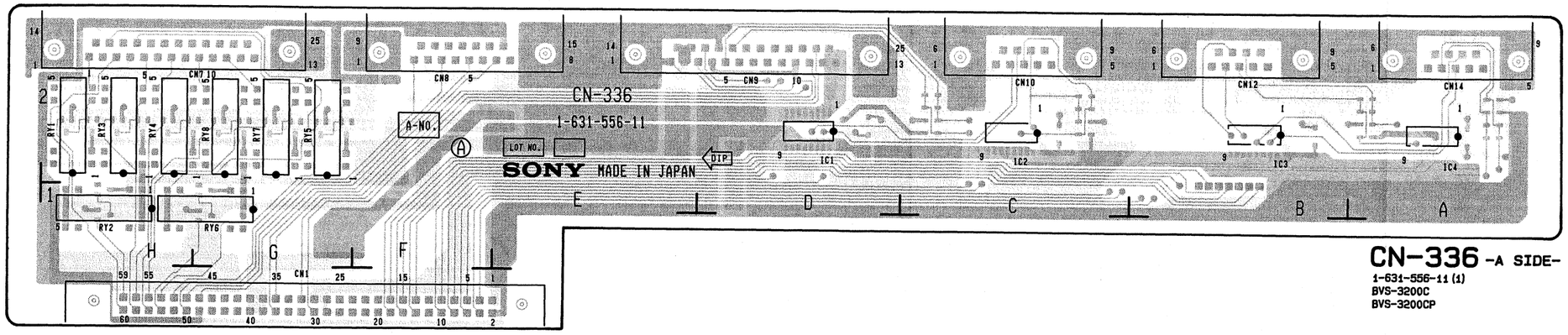


CN-332 -A SIDE-
1-631-557-11 (1)
BVS-3200C
BVS-3200CP

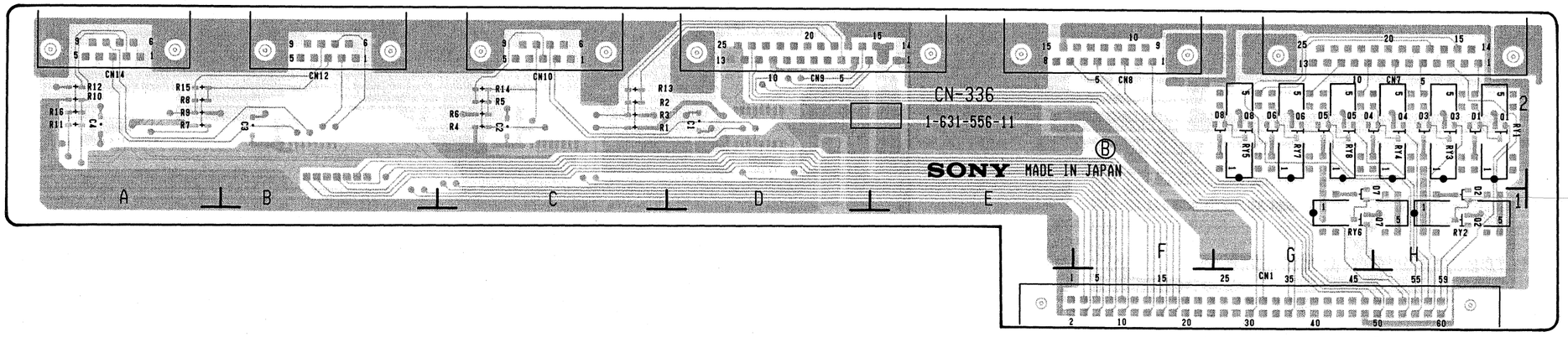


LE-55
-COMPONENT SIDE-
1-620-338-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP

CN-336; CONNECTOR BOARD

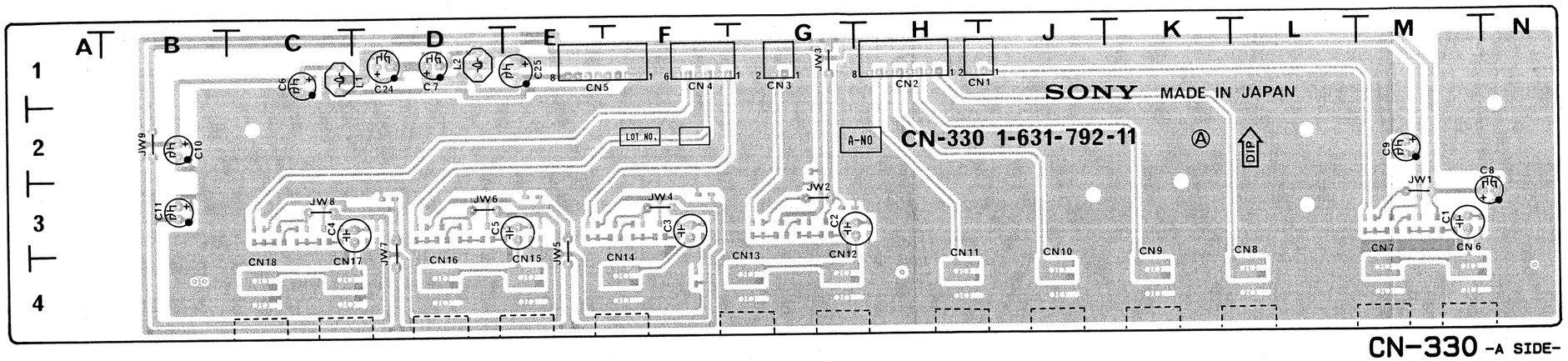


CN-336 -A SIDE-
1-631-556-11 (1)
BVS-3200C
BVS-3200CP

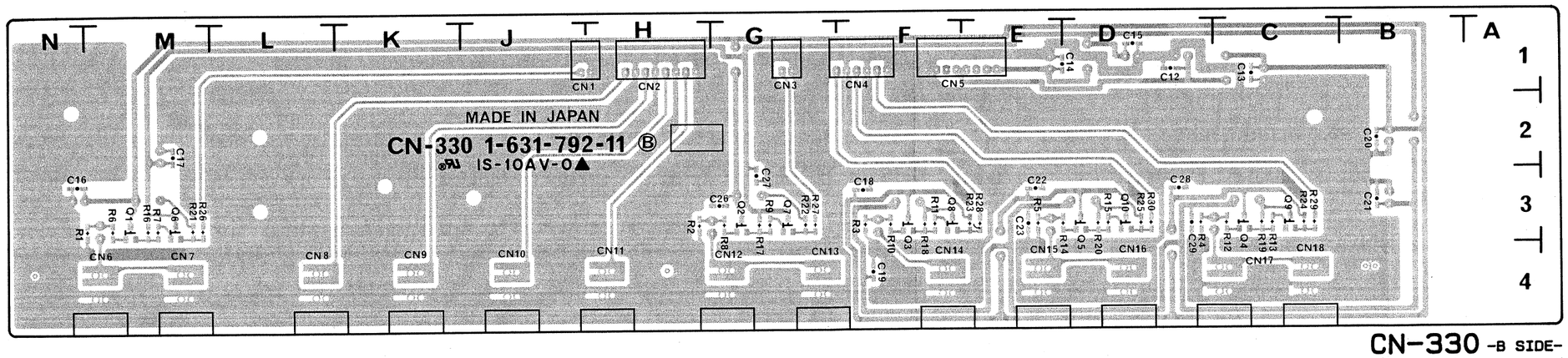


CN-336 -B SIDE-
1-631-556-11 (1)
BVS-3200C
BVS-3200CP

CN-330; CONNECTOR BOARD

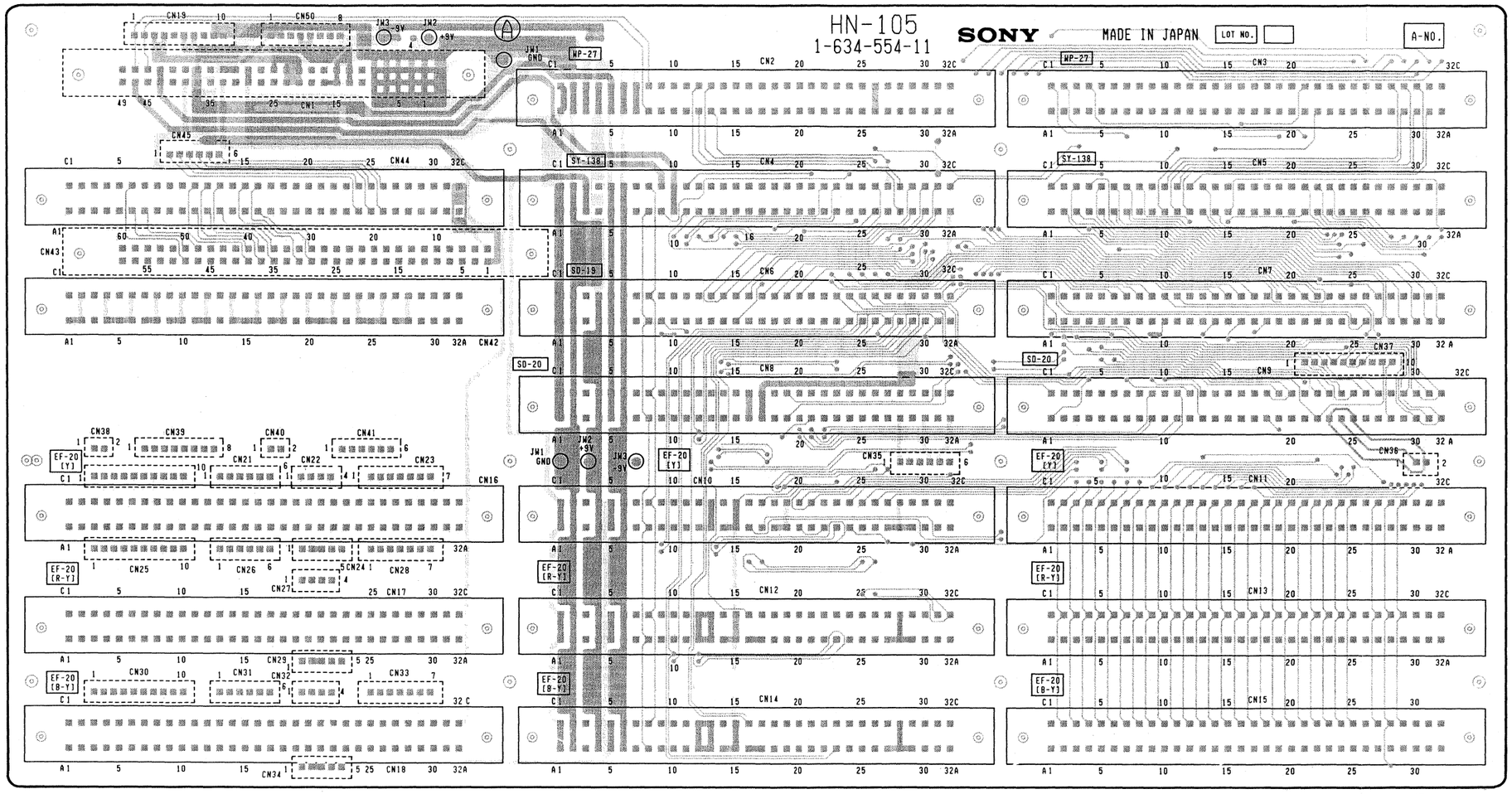


CN-330 -A SIDE-
1-631-792-11 (1)
BVS-3200C
BVS-3200CP



CN-330 -B SIDE-
1-631-792-11 (1)
BVS-3200C
BVS-3200CP

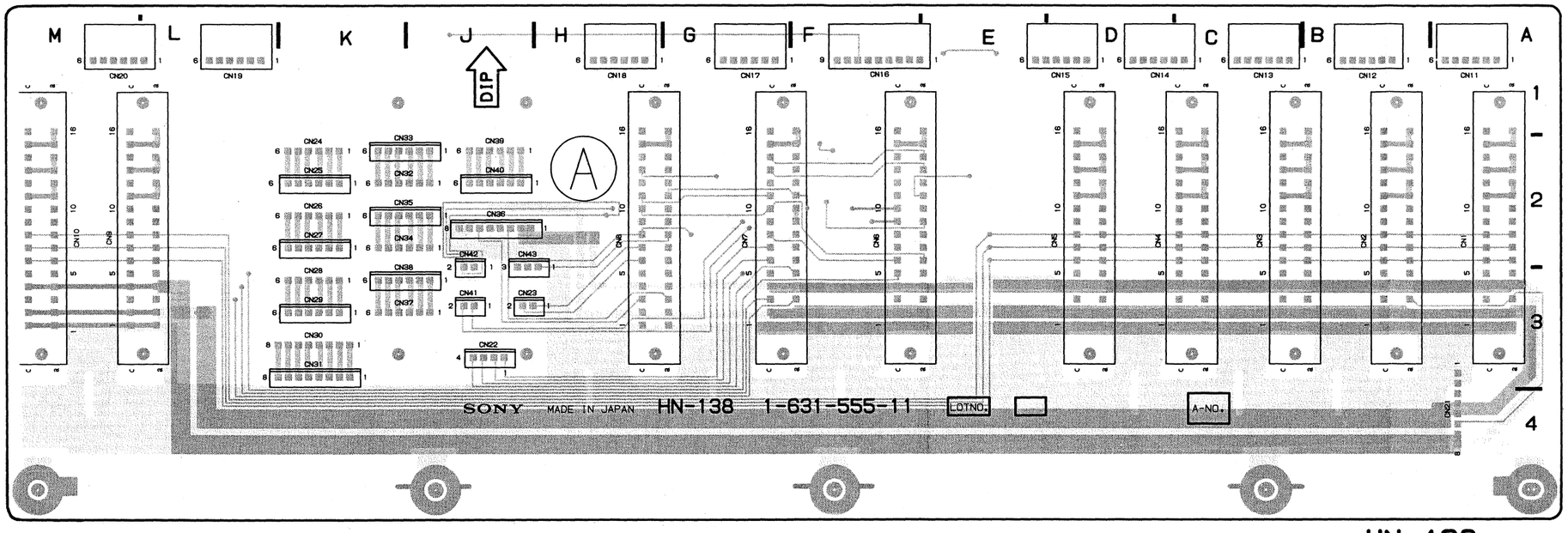
HN-105; MOTHER BOARD



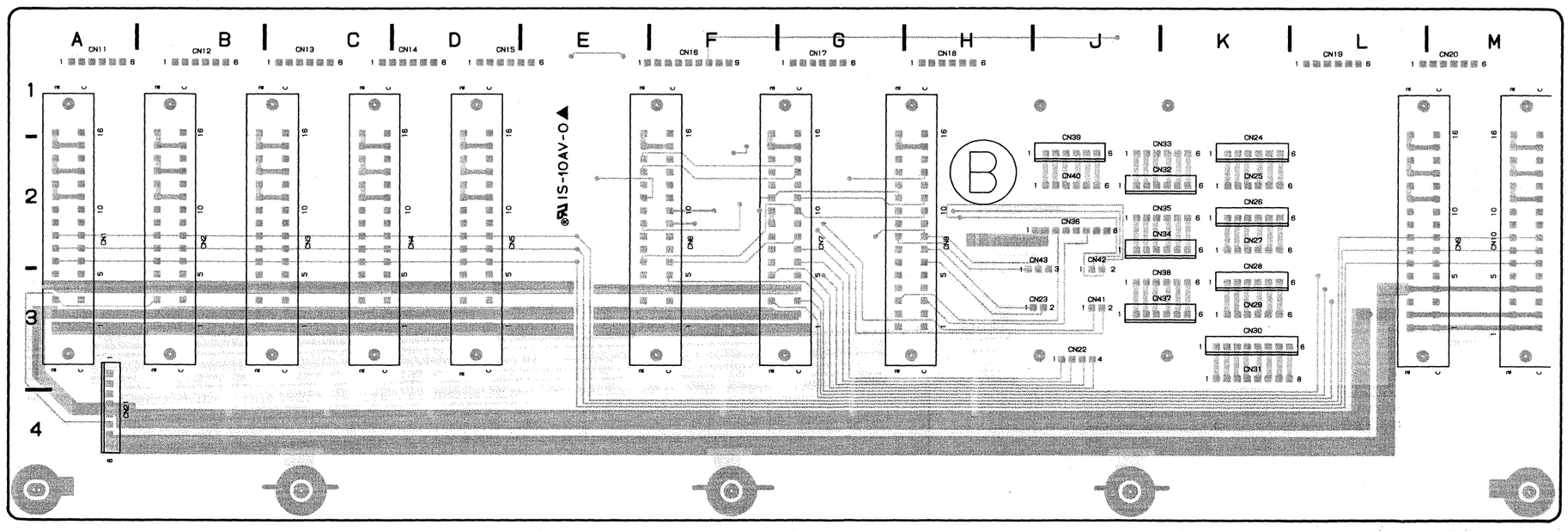
HN-105 -A SIDE-

1-634-554-11 (1)
BVS-3200C
BVS-3200CP

HN-138; MOTHER BOARD



HN-138 -A SIDE-
1-631-555-11 (1)
BVS-3200C
BVS-3200CP



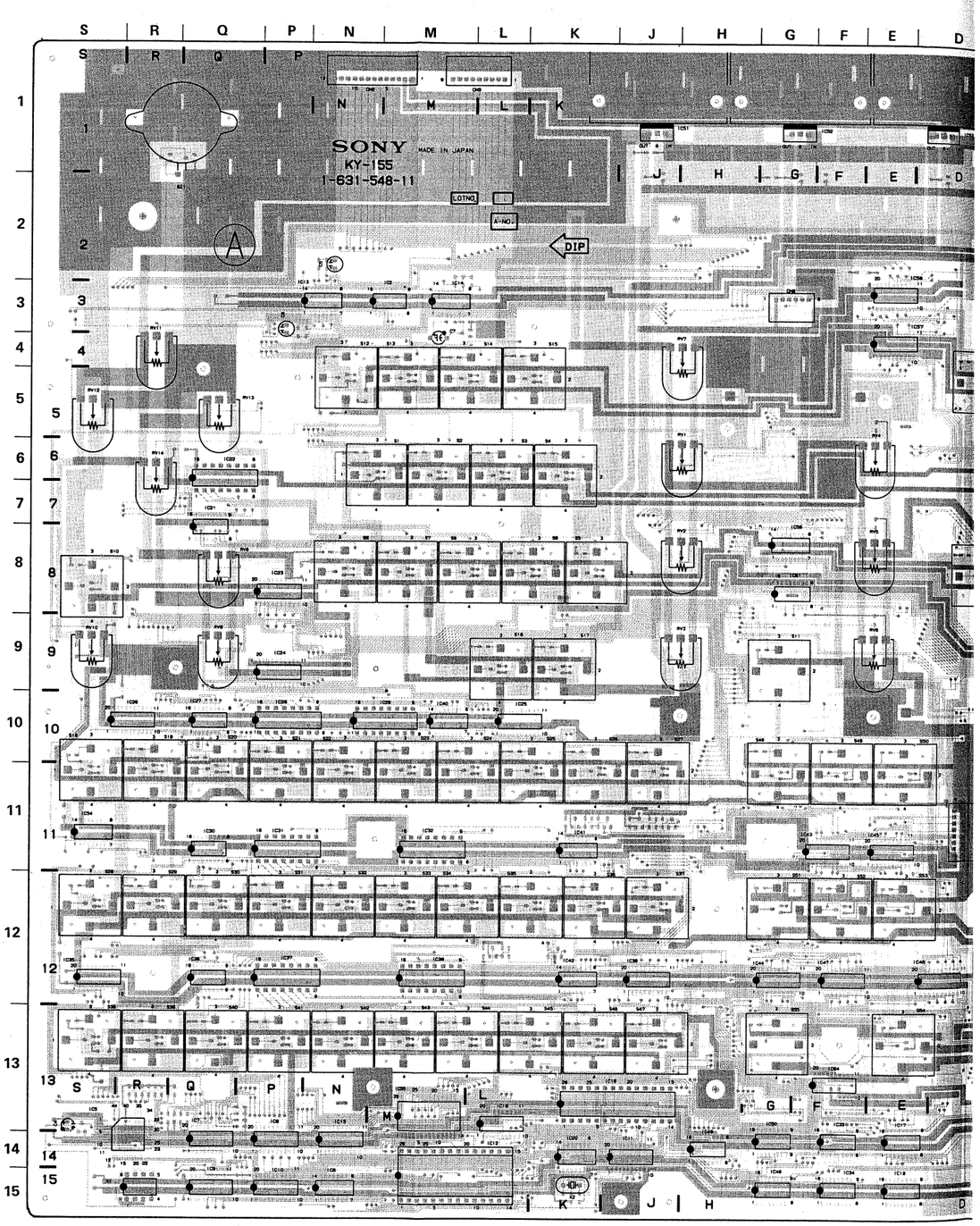
HN-138 -B SIDE-
1-631-555-11 (1)
BVS-3200C
BVS-3200CP

KY-155/155P (1-631-548-11)

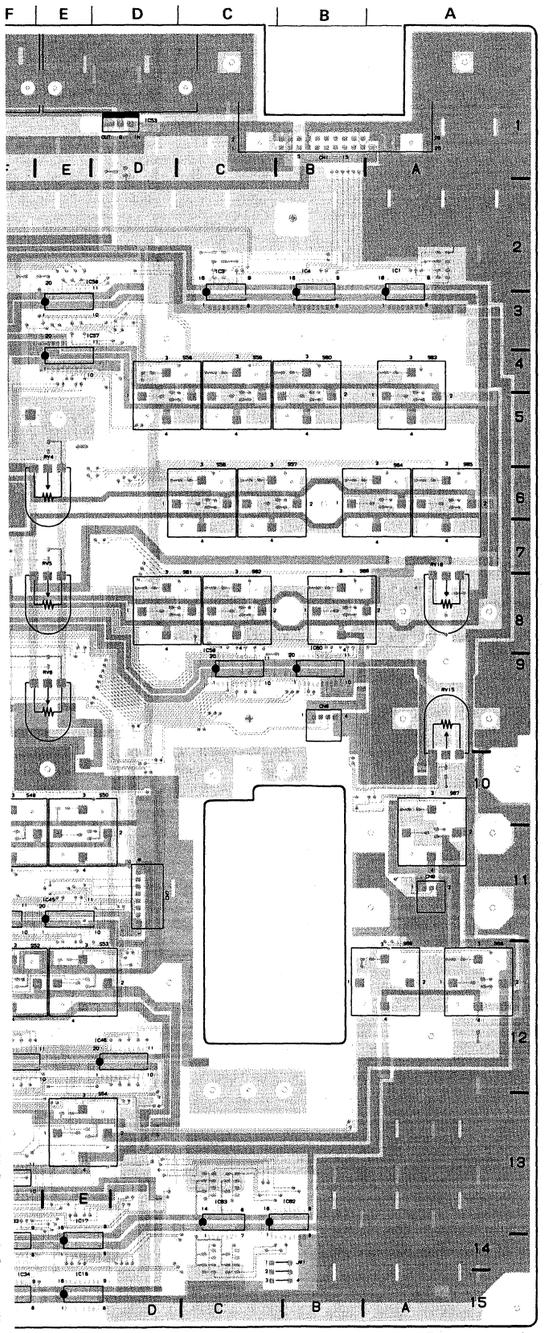
BZ1	R - 2	IC62	B - 13	RV8	Q - 8		
		IC63	D - 13	RV9	Q - 9		
CN1	B - 1	IC64	F - 13	RV10	S - 9		
CN2	N - 1			RV11	R - 3		
CN3	M - 1	Q1	M - 6 (B)	RV12	S - 5		
CN6	B - 9	Q2	M - 6 (B)	RV13	Q - 5		
CN7	D - 11	Q3	L - 6 (B)	RV14	R - 6		
CN8	G - 3	Q4	K - 6 (B)	RV15	A - 9		
CN9	A - 11	Q9	K - 8 (B)	RV16	A - 8		
		Q10	N - 8 (B)				
D1	J - 1 (B)	Q11	M - 8 (B)	S1	M - 6		
D4	G - 1 (B)	Q12	M - 8 (B)	S2	M - 6		
D5	F - 1 (B)	Q13	K - 8 (B)	S3	L - 6		
D6	D - 1 (B)	Q14	S - 8 (B)	S4	K - 6		
D9	S - 14 (B)	Q15	N - 5 (B)	S5	K - 8		
D10	R - 1 (B)	Q16	M - 5 (B)	S6	N - 8		
D11	Q - 1 (B)	Q17	L - 5 (B)	S7	M - 8		
D12	M - 3 (B)	Q18	K - 5 (B)	S8	M - 8		
D13	C - 13 (B)	Q19	L - 9 (B)	S9	K - 8		
D14	C - 13 (B)	Q20	K - 9 (B)	S10	S - 8		
D15	C - 14 (B)	Q21	S - 11 (B)	S11	G - 9		
D16	C - 14 (B)	Q22	R - 11 (B)	S12	N - 4		
		Q23	Q - 11 (B)	S13	M - 4		
IC1	A - 2	Q24	P - 11 (B)	S14	L - 4		
IC2	M - 3	Q25	N - 11 (B)	S15	K - 4		
IC3	C - 2	Q26	M - 11 (B)	S16	L - 9		
IC4	B - 2	Q27	M - 11 (B)	S17	K - 9		
IC5	S - 13	Q28	L - 11 (B)	S18	S - 10		
IC6	N - 15	Q29	K - 11 (B)	S19	R - 10		
IC7	Q - 13	Q30	J - 11 (B)	S20	Q - 10		
IC8	P - 13	Q31	S - 12 (B)	S21	P - 10		
IC9	Q - 15	Q32	R - 12 (B)	S22	N - 10		
IC10	P - 15	Q33	Q - 12 (B)	S23	M - 10		
IC11	J - 14	Q34	P - 12 (B)	S24	L - 10		
IC12	L - 14	Q35	N - 12 (B)	S25	K - 10		
IC13	P - 3	Q36	M - 12 (B)	S26	K - 10		
IC14	M - 3	Q37	M - 12 (B)	S27	H - 10		
IC15	N - 13	Q38	L - 12 (B)	S28	S - 12		
IC16	K - 13	Q39	K - 12 (B)	S29	R - 12		
IC17	E - 13	Q40	J - 12 (B)	S30	Q - 12		
IC18	E - 15	Q41	S - 13 (B)	S31	P - 12		
IC19	L - 13	Q42	R - 13 (B)	S32	N - 12		
IC20	K - 14	Q43	Q - 13 (B)	S33	M - 12		
IC21	Q - 7	Q44	P - 13 (B)	S34	M - 12		
IC22	Q - 6	Q45	N - 13 (B)	S35	L - 12		
IC23	P - 8	Q46	M - 13 (B)	S36	K - 12		
IC24	P - 9	Q47	M - 13 (B)	S37	H - 12		
IC25	L - 10	Q48	L - 13 (B)	S38	S - 13		
IC26	R - 10	Q49	K - 13 (B)	S39	R - 13		
IC27	Q - 10	Q50	J - 13 (B)	S40	Q - 13		
IC28	P - 10	Q51	G - 11 (B)	S41	P - 13		
IC29	M - 10	Q52	F - 11 (B)	S42	N - 13		
IC30	Q - 11	Q53	E - 11 (B)	S43	M - 13		
IC31	P - 11	Q54	G - 12 (B)	S44	L - 13		
IC32	M - 11	Q55	F - 12 (B)	S45	K - 13		
IC33	F - 13	Q56	E - 12 (B)	S46	K - 13		
IC34	F - 15	Q57	E - 13 (B)	S47	J - 13		
IC35	S - 12	Q64	C - 6 (B)	S48	G - 10		
IC36	Q - 12	Q65	C - 6 (B)	S49	F - 10		
IC37	P - 12	Q66	D - 5 (B)	S50	D - 10		
IC38	M - 12	Q67	C - 5 (B)	S51	G - 12		
IC39	J - 12	Q68	B - 5 (B)	S52	F - 12		
IC40	M - 10	Q69	D - 8 (B)	S53	D - 12		
IC41	K - 11	Q70	C - 8 (B)	S54	D - 13		
IC42	K - 12	Q71	A - 5 (B)	S55	G - 13		
IC43	G - 11	Q72	B - 6 (B)	S56	C - 6		
IC44	G - 12	Q73	A - 6 (B)	S57	B - 6		
IC45	E - 11	Q74	B - 8 (B)	S58	C - 4		
IC46	D - 12	Q75	A - 11 (B)	S59	C - 4		
IC47	F - 12	Q76	A - 12 (B)	S60	B - 4		
IC48	G - 15	Q78	J - 11 (B)	S61	C - 8		
IC49	H - 13	Q79	J - 11 (B)	S62	C - 8		
IC50	G - 13	Q80	K - 11 (B)	S63	A - 4		
IC51	J - 1 (B)	Q81	K - 11 (B)	S64	A - 5		
IC52	F - 1 (B)	Q82	L - 12 (B)	S65	A - 5		
IC53	D - 1 (B)	Q83	K - 12 (B)	S66	B - 8		
IC54	S - 11			S67	A - 10		
IC55	M - 13	RV1	H - 5	S68	A - 11		
IC56	G - 7	RV2	H - 8	S69	A - 11		
IC57	G - 3	RV3	H - 9				
IC58	D - 2	RV4	E - 5	X1	S - 15		
IC59	C - 8	RV5	E - 8	X2	K - 15		
IC60	B - 8	RV6	E - 9				
IC61	G - 8	RV7	H - 4				

NOTE
- ; *-* A SIDE
-(B); *-* B SIDE

KY-155; SWITCH BOARD

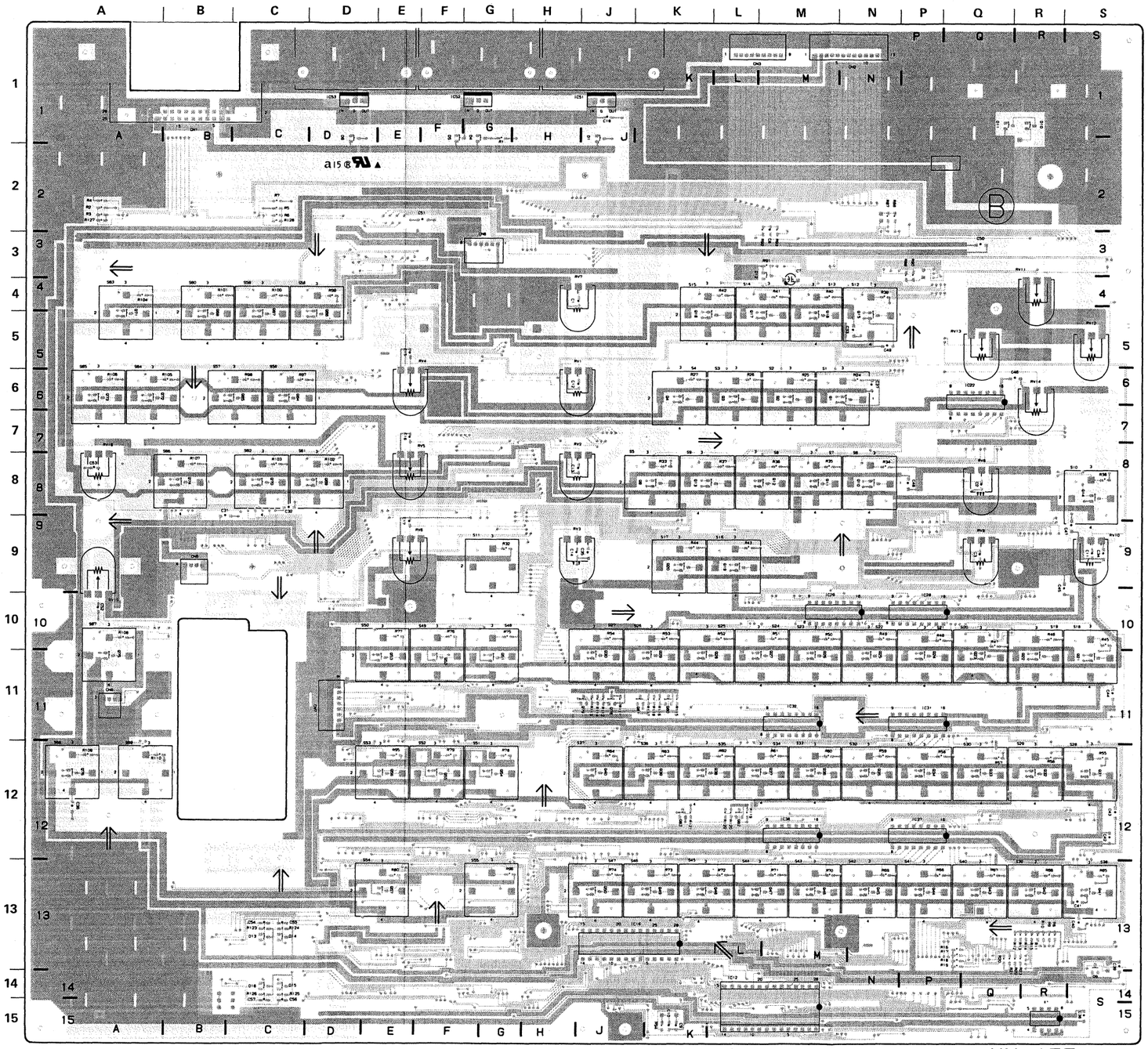


CONSOLE KY-155 KY-155 CONSOLE



KY-155 -A SIDE-

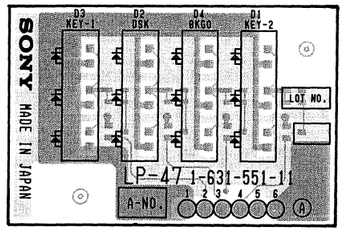
1-631-548-11 (1)
BVS-3200/3200C
BVS-3200P/3200CP



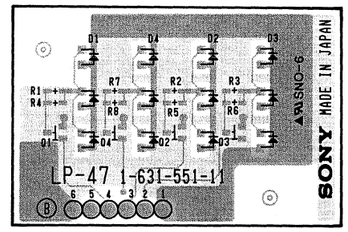
KY-155 -B SIDE-

1-631-548-11 (1)
BVS-3200/3200C
BVS-3200P/3200CP

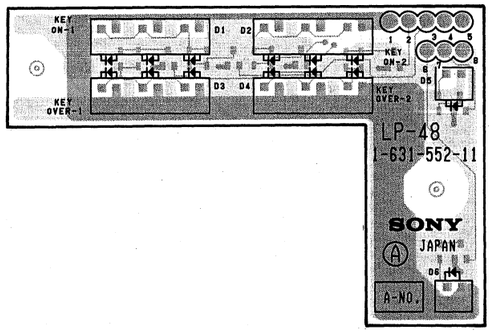
LP-47; LED
LP-48; LED
LP-49; LED



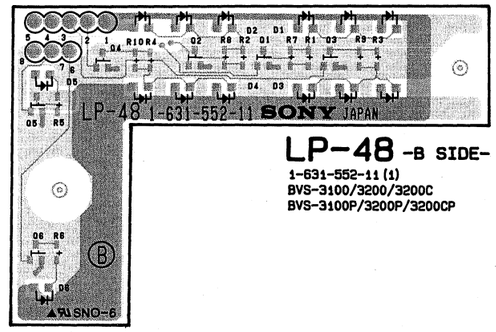
LP-47 -A SIDE-
1-631-551-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP



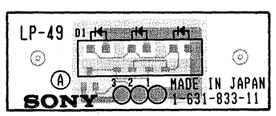
LP-47 -B SIDE-
1-631-551-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP



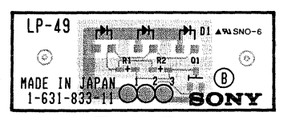
LP-48 -A SIDE-
1-631-552-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP



LP-48 -B SIDE-
1-631-552-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP

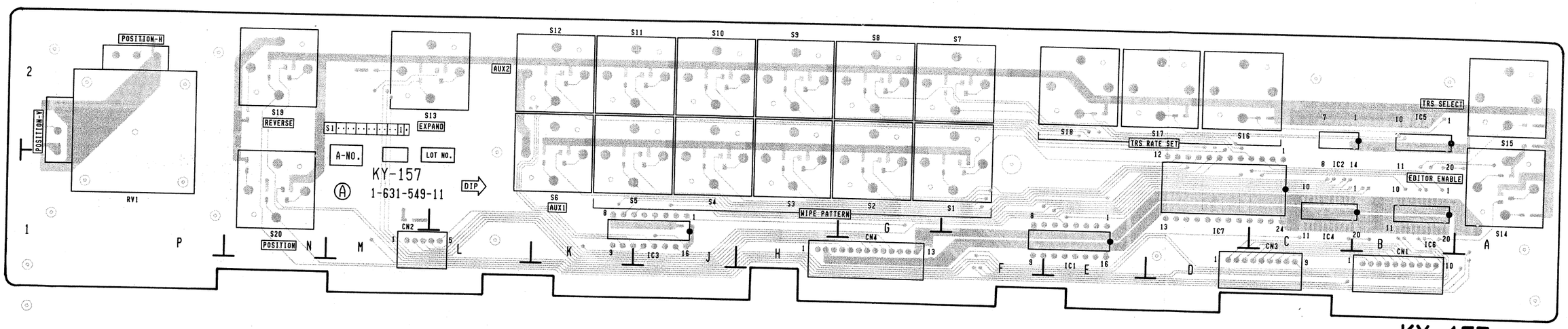


LP-49 -A SIDE-
1-631-833-11 (1)
BVS-3200C
BVS-3200CP

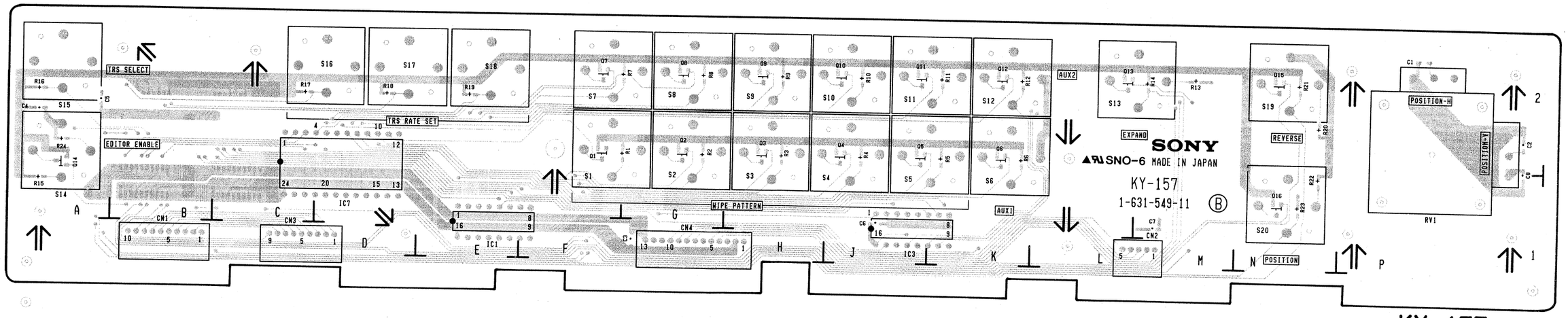


LP-49 -B SIDE-
1-631-833-11 (1)
BVS-3200C
BVS-3200CP

KY-157; SUB SWITCH BOARD

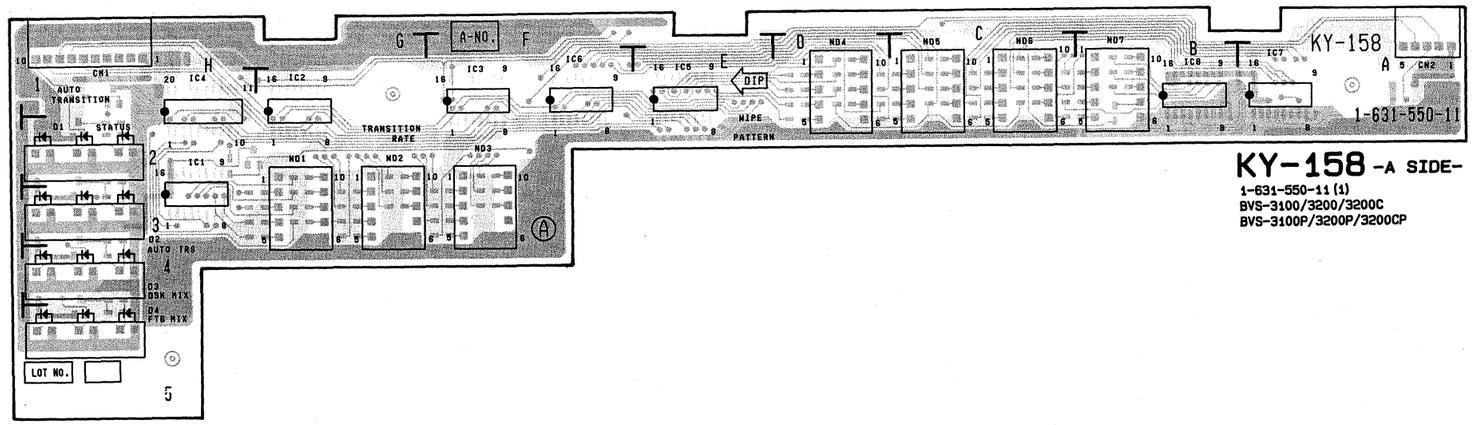


KY-157 -A SIDE-
1-631-549-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP

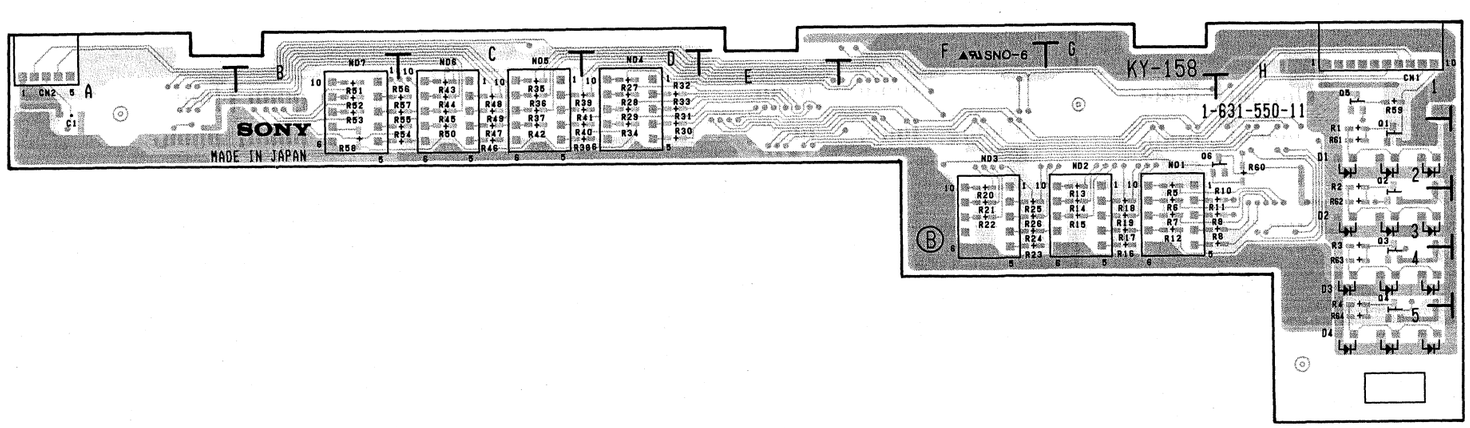


KY-157 -B SIDE-
1-631-549-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP

KY-158; SUB SWITCH BOARD

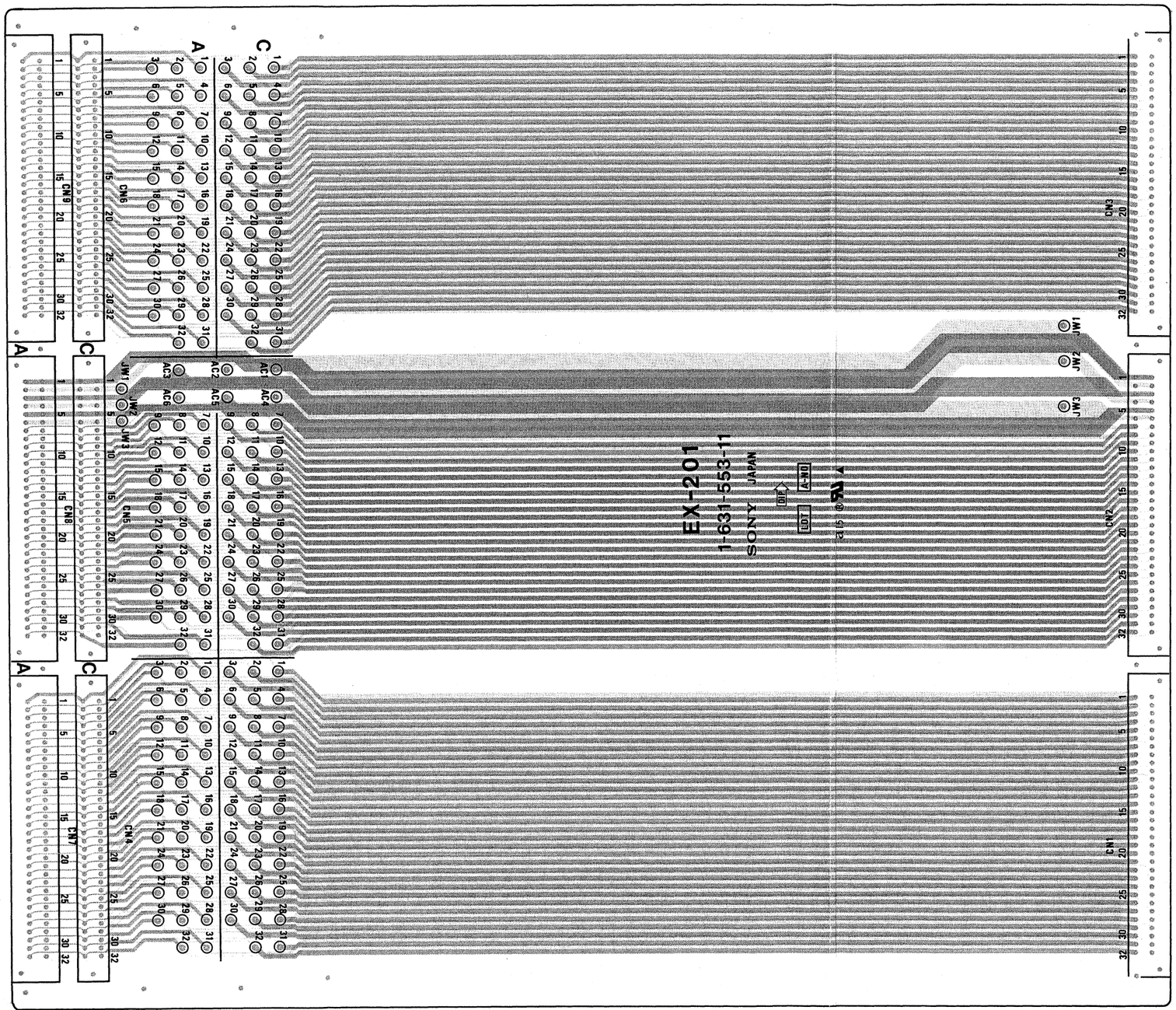


KY-158 -A SIDE-
1-631-550-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP



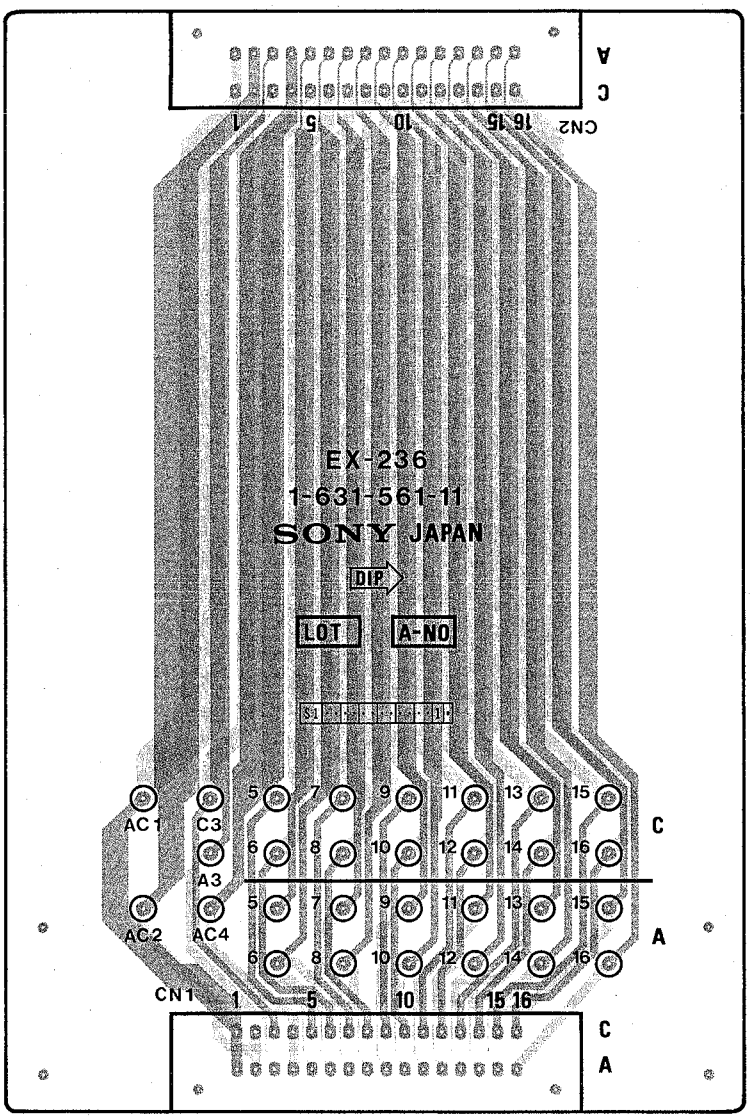
KY-158 -B SIDE-
1-631-550-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP

EX-201; EXTENTION BOARD



EX-201 -COMPONENT SIDE-
1-631-553-11 (1)
BVS-3100/3200/3200C
BVS-3100P/3200P/3200CP

EX-236; EXTENTION BOARD



EX-236 -COMPONENT SIDE-
1-631-561-11 (1)
BVS-3200C
BVS-3200CP

SECTION 9
SPARE PARTS AND FIXTURE

9-1. PARTS INFORMATION

(1) The shaded and ⚠ -marked components are critical to safety.
Replace only with the same components as specified.

(2) Replacement parts supplied from the Sony Parts Center will sometimes have a different shape and outside view from the parts which are used in the unit. This is due to "accommodating improved parts and/or engineering changes" or "standardization of genuine parts".
- This manual's exploded views and electrical spare parts lists indicate the part numbers of "the present standardized genuine parts".
- Regarding engineering part changes by our engineering department, refer to Sony service bulletins and service manual supplements.

(3) The parts marked with "s" in the SP column of the exploded views and electrical spare parts lists are normally stocked for replacement purposes. The parts marked with "o" in the SP column are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

(4) Item with no part number and/or no description are not stocked because they are seldom required for routine service.

(5) (T) after a spring description is shown on the exploded views in order to indicate the number of a spring turn required for the use.
(Example)
Spring, tension (24T); This spring must be cut at its 24th turn for actual use.

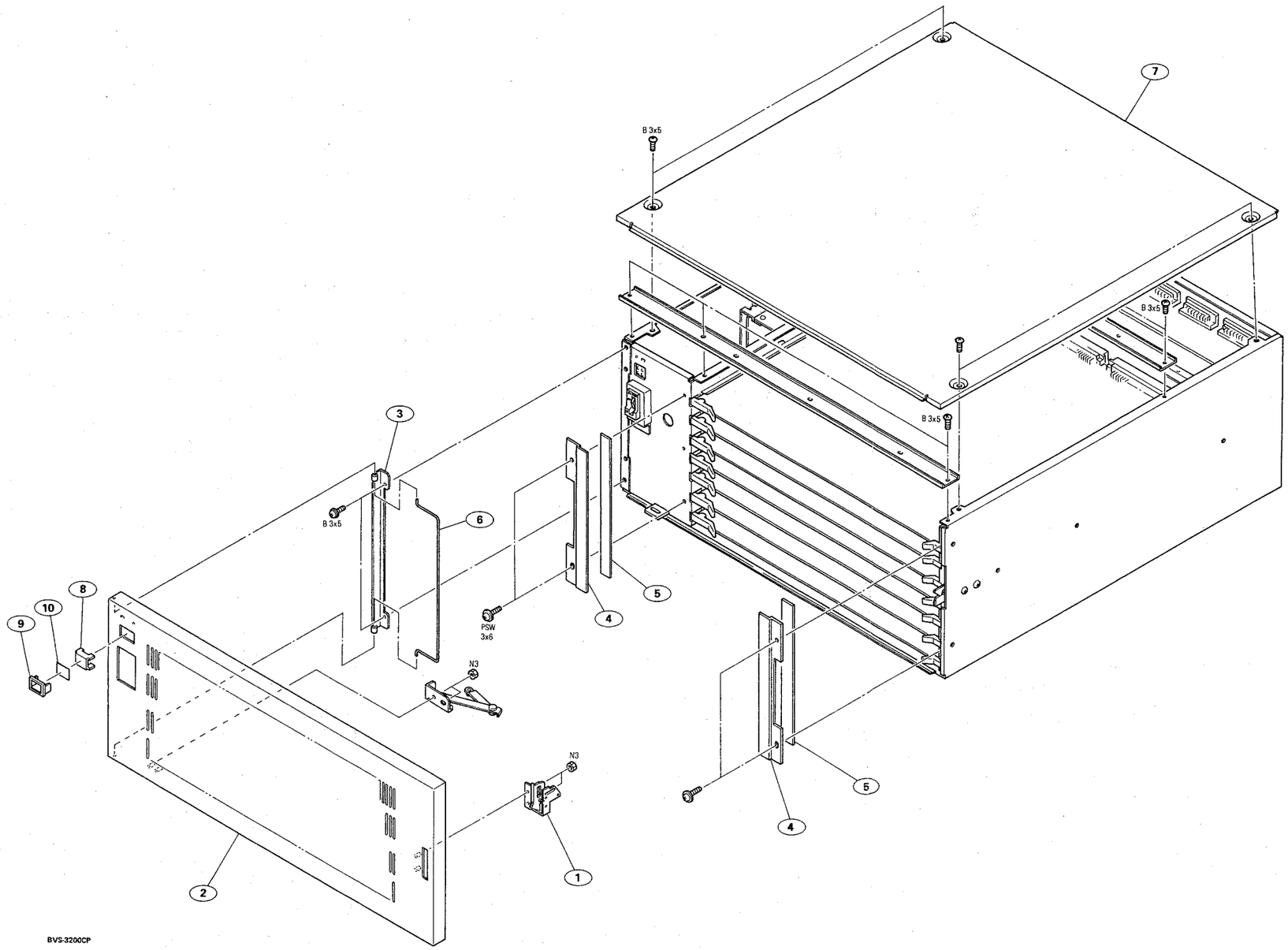
9-2. EXPLODED VIEW

- Exploded views are composed of the following blocks

PROCESS UNIT
(1) Front Panel
(2) Chassis
(3) Rear Panel

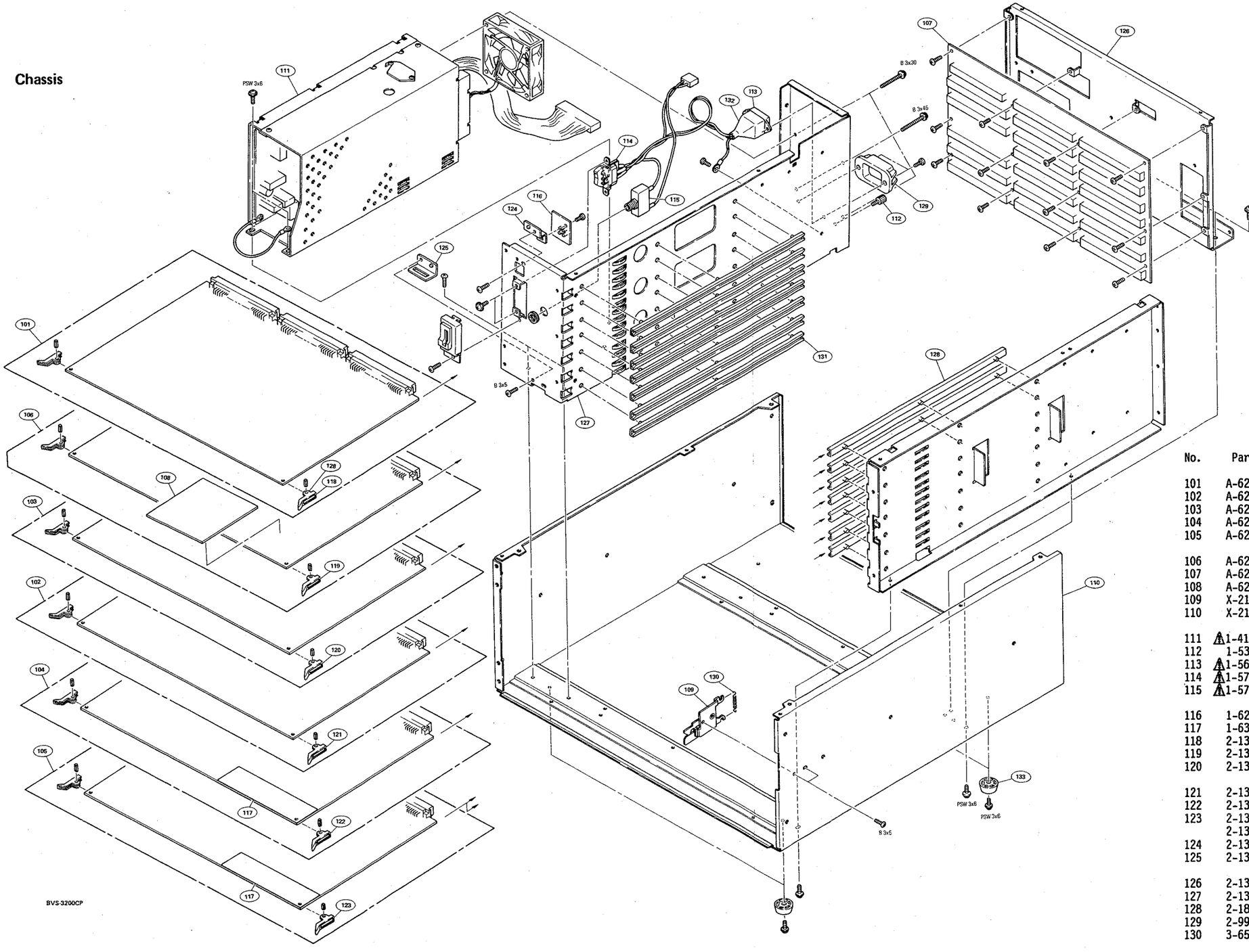
CONSOLE UNIT
(1) Console Unit
(2) Key Switch

Front Panel



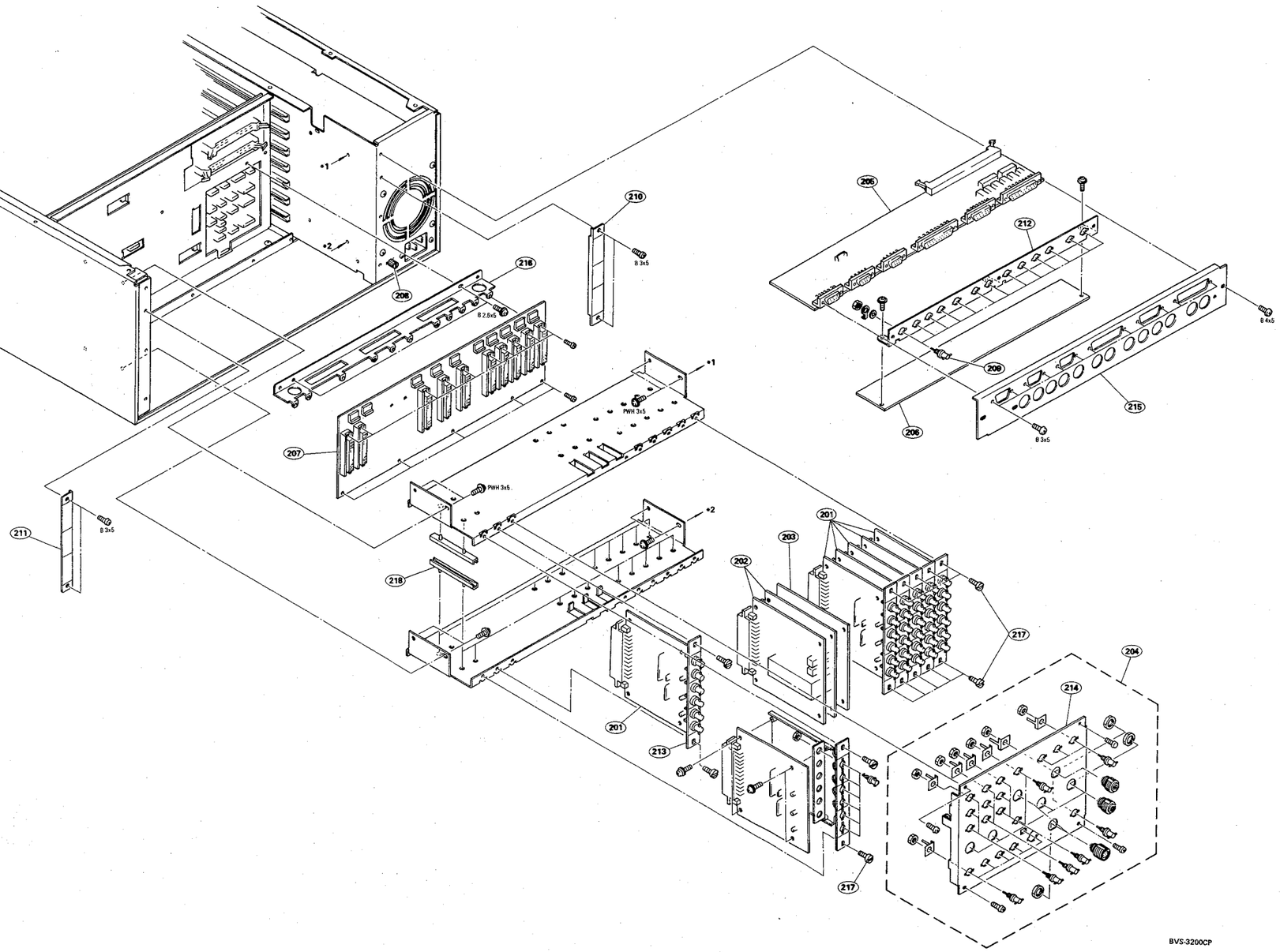
No.	Part No	SP	Description
1	A-6279-484-A	o	HANDLE ASSY, DOOR
2	X-2127-233-1	o	PLATE ASSY, FRONT
3	2-139-101-01	o	SHAFT (4U), HINGE
4	2-139-110-01	o	RETAINER, PC BOARD
5	2-139-111-01	o	CUSHION, PC BOARD
6	2-139-127-01	o	HINGE(4U)
7	2-139-153-01	o	PLATE (D450), TOP
8	2-249-303-01	o	WINDOW(2), REMOTE CONTROL
9	2-249-304-02	o	FRAME(2),WINDOW, REMOTE CONTROL
10	2-249-353-01	o	COVER, LAMP

Chassis



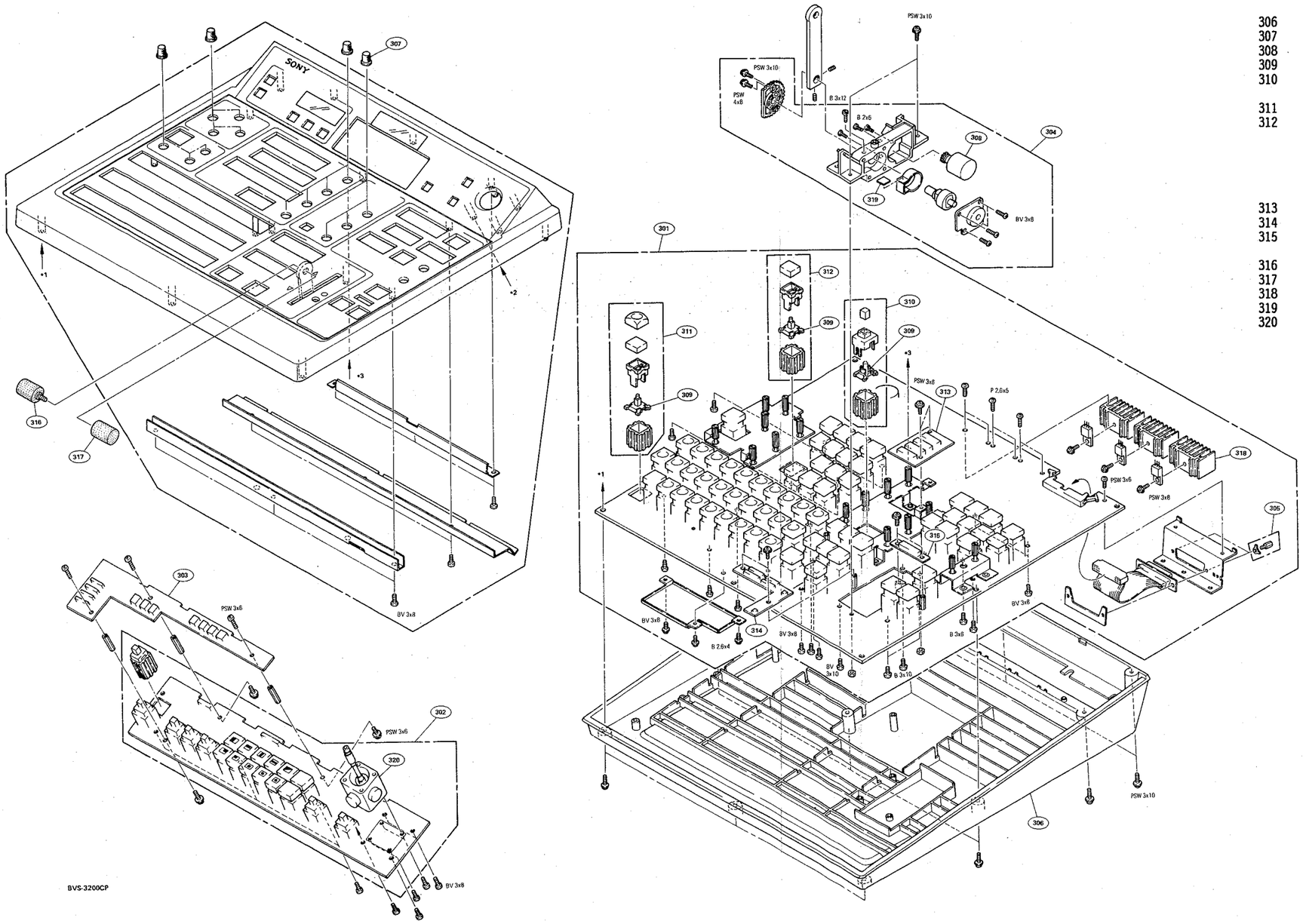
No.	Part No	SP	Description
101	A-6257-248-A	o	MOUNTED CIRCUIT BOARD, WP-27
102	A-6257-250-A	o	MOUNTED CIRCUIT BOARD, SD-20
103	A-6257-252-A	o	MOUNTED CIRCUIT BOARD, SD-19
104	A-6257-254-A	o	MOUNTED CIRCUIT BOARD, EF-20
105	A-6257-256-A	o	MOUNTED CIRCUIT BOARD, EF-20C
106	A-6259-371-A	o	MOUNTED CIRCUIT BOARD, SY-138
107	A-6265-120-A	o	MOUNTED CIRCUIT BOARD, HN-105
108	A-6268-376-A	o	MOUNTED CIRCUIT BOARD, SY-154
109	X-2127-216-1	o	LOCK ASSY, DOOR
110	X-2127-225-1	o	CHASSIS (4U) ASSY
111	⚠1-413-467-11	s	REGULATOR,SWITCHING(SOPS-1007)
112	1-535-324-11	o	TERMINAL, FASTEN
113	⚠1-560-222-11	s	INLET 3P
114	⚠1-570-117-11	s	SWITCH, SEESAW(AC POWER)
115	⚠1-576-036-11	s	BREAKER, CIRCUIT
116	1-620-338-11	o	PC BOARD, LE-55
117	1-632-548-11	o	PC BOARD, DUS-312
118	2-139-103-01	o	LABEL(2), PC BOARD NAME
119	2-139-103-11	o	LABEL(2), PC BOARD NAME
120	2-139-103-21	o	LABEL(2), PC BOARD NAME
121	2-139-103-31	o	LABEL(2), PC BOARD NAME
122	2-139-103-41	o	LABEL(2), PC BOARD NAME
123	2-139-104-01	o	LABEL(3), PC BOARD NAME (R-Y)
	2-139-104-11	o	LABEL(3), PC BOARD NAME (B-Y)
124	2-139-108-01	o	BRACKET, LED
125	2-139-109-01	o	TABLE (R), STOPPER
126	2-139-148-01	o	BRACKET (A), MOTHER
127	2-139-160-02	o	CHASSIS (4U), POWER
128	2-182-909-02	o	LEVER, PC BOARD
129	2-990-241-01	o	HOLDER (A), PLUG
130	3-655-252-01	s	SPRING, TENSION
131	3-673-676-32	o	RAIL, PC BOARD GUIDE
132	4-601-466-11	s	COVER, 3P INLET
133	4-906-391-01	o	FOOT
134	1-541-524-11	s	MOTER, DC FAN

Rear Panel



No.	Part No	SP	Description
201	A-6257-258-A	o	MOUNTED CIRCUIT BOARD, IV-25
202	A-6257-260-A	o	MOUNTED CIRCUIT BOARD, EN-80
203	A-6257-262-A	o	MOUNTED CIRCUIT BOARD, CN-333
204	A-6257-263-A	s	MOUNTED CIRCUIT BOARD, CN-332
205	A-6257-264-A	o	MOUNTED CIRCUIT BOARD, CN-336
206	A-6257-265-A	o	MOUNTED CIRCUIT BOARD, CN-330
207	A-6265-121-A	o	MOUNTED CIRCUIT BOARD, HN-138
208	X-2068-004-1	s	TERMINAL ASSY
209	1-563-354-12	s	CONNECTOR, BNC
210	2-139-112-01	o	PANEL (C), REAR
211	2-139-113-01	o	PANEL (D), REAR
212	2-139-125-01	o	BRACKET (C), BNC
213	2-139-126-01	o	PANEL, REAR, IV
214	2-139-128-01	o	PANEL, (B), REAR
215	2-139-138-01	o	PANEL (A), REAR
216	2-139-149-01	o	BRACKET (B), MOTHER
217	3-653-564-02	s	SCREW, COIN
218	3-673-676-01	o	RAIL, GUIDE, CHASSIS

Console Unit



No.	Part No	SP	Description
301	A-6259-373-A	o	MOUNTED CIRCUIT BOARD, KY-155
302	A-6259-374-A	o	MOUNTED CIRCUIT BOARD, KY-157
303	A-6259-375-A	o	MOUNTED CIRCUIT BOARD, KY-158
304	A-6279-486-A	s	FADER ASSY
305	X-2068-004-1	s	TERMINAL ASSY
306	X-2127-242-1	o	COVER ASSY, LOWER
307	X-3668-075-1	s	KNOB ASSY, CONTROL
308	1-466-182-11	s	ENCODER, ROTARY (MAGNETIC)
309	1-518-659-11	s	PILOT LAMP
310	1-572-031-11	s	SWITCH, PUSH (1 KEY)
311	1-572-032-	s	SWITCH, PUSH (1 KEY)
312	1-572-033- 1-572-034- 1-572-035- 1-572-036- 1-572-037- 1-572-038-	s	SWITCH, PUSH (1 KEY)
313	1-631-551-11	o	PC BOARD, LP-47
314	1-631-552-11	o	PC BOARD, LP-48
315	1-631-833-11	o	PC BOARD, LP-49
316	2-139-115-01	o	GRIP (B), FADER
317	2-139-116-01	o	GRIP (A), FADER
318	2-139-131-01	o	HEAT SINK, CON.
319	2-139-171-01	s	SPACER (F)
320	2-139-172-01	s	LEVER, FOG

KEY SWITCH

WHITE

	KEY SWITCH		KEY TOP	
	SP	Parts No.	SP	Parts No.
	s	1-572-032-11	s	3-707-668-01
BLACK	s	1-572-032-21	s	3-707-668-11
COLOR BKGD	s	1-572-032-31	s	3-707-668-21

YELLOW

	KEY SWITCH		KEY TOP	
	SP	Parts No.	SP	Parts No.
	s	1-572-032-41	s	3-707-668-31
BLACK	s	1-572-032-51	s	3-707-668-41
COLOR BKGD	s	1-572-032-61	s	3-707-668-51

ORANGE

	KEY SWITCH		KEY TOP	
	SP	Parts No.	SP	Parts No.
	s	1-572-032-71	s	3-707-668-61
BLACK	s	1-572-032-81	s	3-707-668-71
COLOR BKGD	s	1-572-032-91	s	3-707-668-81

	KEY SWITCH		KEY TOP	
	SP	Parts No.	SP	Parts No.
EXT VIDEO	s	1-572-033-11	s	3-707-669-01
DSK MATTE	s	1-572-033-21	s	3-707-669-11
BORDER LINE	s	1-572-033-31	s	3-707-669-21
DROP SHADOW	s	1-572-033-41	s	3-707-669-31
OUT LINE	s	1-572-033-51	s	3-707-669-41
DSK EXT	s	1-572-033-61	s	3-707-669-51
KEY BUS	s	1-572-033-71	s	3-707-669-61
LINE 411	s	1-572-033-81	s	3-707-669-71
MASK	s	1-572-033-91	s	3-707-669-81
KEY INVERT	s	1-572-034-11	s	3-707-669-91
DSK PVW	s	1-572-034-21	s	3-707-670-01
ASPECT ON	s	1-572-034-31	s	3-707-670-11
AUX 1	s	1-572-034-41	s	3-707-670-21

	KEY SWITCH		KEY TOP	
	SP	Parts No.	SP	Parts No.
AUX 2	s	1-572-034-51	s	3-707-670-31
DSK CUT	s	1-572-034-61	s	3-707-670-41
DSK MIX	s	1-572-034-71	s	3-707-670-51
1	s	1-572-034-81	s	3-707-670-61
3	s	1-572-034-91	s	3-707-670-71
17	s	1-572-035-11	s	3-707-670-81
18	s	1-572-035-21	s	3-707-670-91
9	s	1-572-035-31	s	3-707-671-01
6	s	1-572-035-41	s	3-707-671-11
5	s	1-572-035-51	s	3-707-671-21
21	s	1-572-035-61	s	3-707-671-31
24	s	1-572-035-71	s	3-707-671-41
23	s	1-572-035-81	s	3-707-671-51

	KEY SWITCH		KEY TOP	
	SP	Parts No.	SP	Parts No.
BKGD	s	1-572-035-91	s	3-707-671-61
KEY 1	s	1-572-036-11	s	3-707-671-71
KEY 2	s	1-572-036-21	s	3-707-671-81
KEY BUS	s	1-572-036-31	s	3-707-671-91
LIASK	s	1-572-036-41	s	3-707-672-01
KEY INVERT	s	1-572-036-51	s	3-707-672-11
EXT VIDEO 1	s	1-572-036-61	s	3-707-672-21
EXT VIDEO 2	s	1-572-036-71	s	3-707-672-31
EFF MATTE	s	1-572-036-81	s	3-707-672-41
PST PTN	s	1-572-036-91	s	3-707-672-51
EFF EXT 1	s	1-572-037-11	s	3-707-672-61
EFF EXT 2	s	1-572-037-21	s	3-707-672-71
CHROMA KEY	s	1-572-037-31	s	3-707-672-81

	KEY SWITCH		KEY TOP	
	SP	Parts No.	SP	Parts No.
EXT MASK	s	1-572-037-41	s	3-707-672-91
MIX	s	1-572-037-51	s	3-707-673-01
WIPE	s	1-572-037-61	s	3-707-673-11
KEY OVER	s	1-572-037-71	s	3-707-673-21
KEY 1 SELECT	s	1-572-037-81	s	3-707-673-31
KEY 2 SELECT	s	1-572-037-91	s	3-707-673-41
EVE EFF	s	1-572-038-11	s	3-707-673-51
CUT	s	1-572-038-21	s	3-707-673-61
AUTO TRANS	s	1-572-038-31	s	3-707-673-71
FADE TO BLACK	s	1-572-038-41	s	3-707-673-81
KEY	s	1-572-080-11	s	3-707-729-01
DME	s	1-572-081-11	s	3-707-730-01

9-3. ELECTRICAL PARTS LIST

ABBREVIATIONS

Ref. No.	Description
C□□, CT□□	CAPACITOR
CF□□	CERAMIC FILTER
CN□□	CONNECTOR
D□□	DIODE
DL□□	DELAY LINE
F□□	FUSE
FB□□	FERRITE BEAD
FL□□	FILTER
H□□	HEAD

Ref. No.	Description
IC□□	IC
J□□	JACK
L□□	INDUCTOR
M□□	MOTOR
ME□□	METER
MIC□□	MICROPHONE
PG□□	PG COIL
PL□□	LAMP
PM□□	SOLENOIDE

Ref. No.	Description
Q□□	TRANSISTOR
R□□, RV□□	RESISTOR
RY□□	RELAY
S□□, SW□□	SWITCH
SB□□	SOLAR BATTERY
T□□	TRANSFORMER
TH□□	THERMISTOR
X□□	CRYSTAL

All capacitors are in micro farads unless otherwise specified.

All inductors are in micro henries unless otherwise specified.

All resistors are in ohms.

General Purpose Electrical Parts List

Parts that are not listed in the "reference numbers order list" are shown in following list.
Reference numbers are omitted.

CAPACITOR, CHIP CERAMIC

Part No.	SP	Description			
1-163-083-00	s	CAP, CHIP CERAMIC	1pF	+-0.25pF	50V
1-163-085-00	s	CAP, CHIP CERAMIC	2pF	+-0.25pF	50V
1-163-087-00	s	CAP, CHIP CERAMIC	4pF	+-0.25pF	50V
1-163-089-00	s	CAP, CHIP CERAMIC	6pF	+-0.5pF	50V
1-163-091-00	s	CAP, CHIP CERAMIC	8pF	+-0.5pF	50V
1-163-093-00	s	CAP, CHIP CERAMIC	10pF	5%	50V
1-163-097-00	s	CAP, CHIP CERAMIC	15pF	5%	50V
1-163-101-00	s	CAP, CHIP CERAMIC	22pF	5%	50V
1-163-105-00	s	CAP, CHIP CERAMIC	33pF	5%	50V
1-163-109-00	s	CAP, CHIP CERAMIC	47pF	5%	50V
1-163-113-00	s	CAP, CHIP CERAMIC	68pF	5%	50V
1-163-117-00	s	CAP, CHIP CERAMIC	100pF	5%	50V
1-163-121-00	s	CAP, CHIP CERAMIC	150pF	5%	50V
1-163-125-00	s	CAP, CHIP CERAMIC	220pF	5%	50V
1-163-129-00	s	CAP, CHIP CERAMIC	330pF	5%	50V
1-163-133-00	s	CAP, CHIP CERAMIC	470pF	5%	50V
1-163-137-00	s	CAP, CHIP CERAMIC	680pF	5%	50V
1-163-141-00	s	CAP, CHIP CERAMIC	1000pF	5%	50V
1-163-145-00	s	CAP, CHIP CERAMIC	1500pF	10%	50V
1-163-013-00	s	CAP, CHIP CERAMIC	2200pF	10%	50V
1-163-015-00	s	CAP, CHIP CERAMIC	3300pF	10%	50V
1-163-017-00	s	CAP, CHIP CERAMIC	4700pF	10%	50V
1-163-019-00	s	CAP, CHIP CERAMIC	6800pF	10%	50V
1-163-021-00	s	CAP, CHIP CERAMIC	0.01	10%	50V
1-163-023-00	s	CAP, CHIP CERAMIC	0.015	10%	50V
1-163-034-00	s	CAP, CHIP CERAMIC	0.033		50V
1-163-035-00	s	CAP, CHIP CERAMIC	0.047		50V
1-163-036-00	s	CAP, CHIP CERAMIC	0.068		50V
1-163-038-00	s	CAP, CHIP CERAMIC	0.1		50V

CAPACITOR, CHIP TANTALUM

Part No.	SP	Description			
1-135-070-00	s	CAP, CHIP TANTALUM	0.1	10%	35V
1-135-071-21	s	CAP, CHIP TANTALUM	0.15	10%	35V
1-135-072-21	s	CAP, CHIP TANTALUM	0.22	10%	35V
1-135-073-00	s	CAP, CHIP TANTALUM	0.33	10%	35V
1-135-083-00	s	CAP, CHIP TANTALUM	0.47	10%	25V
1-135-074-21	s	CAP, CHIP TANTALUM	0.47	10%	35V
1-135-087-21	s	CAP, CHIP TANTALUM	0.68	10%	20V
1-135-075-21	s	CAP, CHIP TANTALUM	0.68	10%	35V
1-135-091-21	s	CAP, CHIP TANTALUM	1.0	10%	16V
1-135-076-21	s	CAP, CHIP TANTALUM	1.0	10%	35V
1-135-084-21	s	CAP, CHIP TANTALUM	1.5	10%	25V
1-135-077-21	s	CAP, CHIP TANTALUM	1.5	10%	35V
1-135-088-21	s	CAP, CHIP TANTALUM	2.2	10%	20V
1-135-078-21	s	CAP, CHIP TANTALUM	2.2	10%	35V
1-135-092-21	s	CAP, CHIP TANTALUM	3.3	10%	16V
1-135-079-21	s	CAP, CHIP TANTALUM	3.3	10%	35V
1-135-096-21	s	CAP, CHIP TANTALUM	4.7	10%	10V
1-135-085-21	s	CAP, CHIP TANTALUM	4.7	10%	25V
1-135-100-21	s	CAP, CHIP TANTALUM	6.8	10%	6.3V
1-135-089-21	s	CAP, CHIP TANTALUM	6.8	10%	20V
1-135-093-21	s	CAP, CHIP TANTALUM	10	10%	16V
1-135-097-21	s	CAP, CHIP TANTALUM	15	10%	10V
1-135-101-21	s	CAP, CHIP TANTALUM	22	10%	6.3V
1-135-098-21	s	CAP, CHIP TANTALUM	47	10%	6.3V

RESISTOR, CHIP METAL

Part No.	SP	Description			
1-216-603-11	s	RES, CHIP METAL	10	1%	1/10W
1-216-605-11	s	RES, CHIP METAL	12	1%	1/10W
1-216-609-11	s	RES, CHIP METAL	18	1%	1/10W
1-216-611-11	s	RES, CHIP METAL	22	1%	1/10W
1-216-614-11	s	RES, CHIP METAL	30	1%	1/10W
1-216-617-11	s	RES, CHIP METAL	39	1%	1/10W
1-216-619-11	s	RES, CHIP METAL	47	1%	1/10W
1-216-620-11	s	RES, CHIP METAL	51	1%	1/10W
1-216-623-11	s	RES, CHIP METAL	68	1%	1/10W
1-216-624-11	s	RES, CHIP METAL	75	1%	1/10W
1-216-625-11	s	RES, CHIP METAL	82	1%	1/10W
1-216-626-11	s	RES, CHIP METAL	91	1%	1/10W
1-216-627-11	s	RES, CHIP METAL	100	1%	1/10W
1-216-629-11	s	RES, CHIP METAL	120	1%	1/10W
1-216-631-11	s	RES, CHIP METAL	150	1%	1/10W
1-216-633-11	s	RES, CHIP METAL	180	1%	1/10W
1-216-634-11	s	RES, CHIP METAL	200	1%	1/10W
1-216-635-11	s	RES, CHIP METAL	220	1%	1/10W
1-216-636-11	s	RES, CHIP METAL	240	1%	1/10W
1-216-637-11	s	RES, CHIP METAL	270	1%	1/10W
1-216-638-11	s	RES, CHIP METAL	300	1%	1/10W
1-216-639-11	s	RES, CHIP METAL	330	1%	1/10W
1-216-640-11	s	RES, CHIP METAL	360	1%	1/10W
1-216-641-11	s	RES, CHIP METAL	390	1%	1/10W
1-216-642-11	s	RES, CHIP METAL	430	1%	1/10W
1-216-643-11	s	RES, CHIP METAL	470	1%	1/10W
1-216-644-11	s	RES, CHIP METAL	510	1%	1/10W
1-216-645-11	s	RES, CHIP METAL	560	1%	1/10W
1-216-647-11	s	RES, CHIP METAL	680	1%	1/10W
1-216-648-11	s	RES, CHIP METAL	750	1%	1/10W
1-216-649-11	s	RES, CHIP METAL	820	1%	1/10W
1-216-650-11	s	RES, CHIP METAL	910	1%	1/10W
1-216-651-11	s	RES, CHIP METAL	1.0k	1%	1/10W
1-216-652-11	s	RES, CHIP METAL	1.1k	1%	1/10W
1-216-653-11	s	RES, CHIP METAL	1.2k	1%	1/10W
1-216-655-11	s	RES, CHIP METAL	1.5k	1%	1/10W
1-216-656-11	s	RES, CHIP METAL	1.6k	1%	1/10W
1-216-657-11	s	RES, CHIP METAL	1.8k	1%	1/10W
1-216-658-11	s	RES, CHIP METAL	2k	1%	1/10W
1-216-659-11	s	RES, CHIP METAL	2.2k	1%	1/10W
1-216-660-11	s	RES, CHIP METAL	2.4k	1%	1/10W
1-216-661-11	s	RES, CHIP METAL	2.7k	1%	1/10W
1-216-662-11	s	RES, CHIP METAL	3k	1%	1/10W
1-216-663-11	s	RES, CHIP METAL	3.3k	1%	1/10W
1-216-664-11	s	RES, CHIP METAL	3.5k	1%	1/10W
1-216-665-11	s	RES, CHIP METAL	3.9k	1%	1/10W
1-216-666-11	s	RES, CHIP METAL	4.3k	1%	1/10W
1-216-667-11	s	RES, CHIP METAL	4.7k	1%	1/10W
1-216-668-11	s	RES, CHIP METAL	5.1k	1%	1/10W
1-216-669-11	s	RES, CHIP METAL	5.6k	1%	1/10W
1-216-670-11	s	RES, CHIP METAL	6.2k	1%	1/10W
1-216-671-11	s	RES, CHIP METAL	6.8k	1%	1/10W
1-216-672-11	s	RES, CHIP METAL	7.5k	1%	1/10W
1-216-673-11	s	RES, CHIP METAL	8.2k	1%	1/10W
1-216-674-11	s	RES, CHIP METAL	9.1k	1%	1/10W
1-216-675-11	s	RES, CHIP METAL	10k	1%	1/10W
1-216-676-11	s	RES, CHIP METAL	11k	1%	1/10W
1-216-677-11	s	RES, CHIP METAL	12k	1%	1/10W
1-216-678-11	s	RES, CHIP METAL	13k	1%	1/10W
1-216-679-11	s	RES, CHIP METAL	15k	1%	1/10W

Part No.	SP	Description			
1-216-680-11	s	RES, CHIP METAL	16k	1%	1/10W
1-216-681-11	s	RES, CHIP METAL	18k	1%	1/10W
1-216-682-11	s	RES, CHIP METAL	20k	1%	1/10W
1-216-683-11	s	RES, CHIP METAL	22k	1%	1/10W
1-216-684-11	s	RES, CHIP METAL	24k	1%	1/10W
1-216-685-11	s	RES, CHIP METAL	27k	1%	1/10W
1-216-686-11	s	RES, CHIP METAL	30k	1%	1/10W
1-216-687-11	s	RES, CHIP METAL	33k	1%	1/10W
1-216-688-11	s	RES, CHIP METAL	36k	1%	1/10W
1-216-689-11	s	RES, CHIP METAL	39k	1%	1/10W
1-216-690-11	s	RES, CHIP METAL	43k	1%	1/10W
1-216-691-11	s	RES, CHIP METAL	49k	1%	1/10W
1-216-692-11	s	RES, CHIP METAL	51k	1%	1/10W
1-216-693-11	s	RES, CHIP METAL	56k	1%	1/10W
1-216-694-11	s	RES, CHIP METAL	62k	1%	1/10W
1-216-695-11	s	RES, CHIP METAL	68k	1%	1/10W
1-216-696-11	s	RES, CHIP METAL	75k	1%	1/10W
1-216-697-11	s	RES, CHIP METAL	82k	1%	1/10W
1-216-698-11	s	RES, CHIP METAL	91k	1%	1/10W
1-216-699-11	s	RES, CHIP METAL	100k	1%	1/10W

INDUCTOR, MICRO

Part No.	SP	Description		
1-408-876-00	s	INDUCTOR, MICRO	0.18	5%
1-408-877-00	s	INDUCTOR, MICRO	0.22	5%
1-408-878-00	s	INDUCTOR, MICRO	0.33	5%
1-408-879-21	s	INDUCTOR, MICRO	0.47	5%
1-408-931-00	s	INDUCTOR, MICRO	0.56	5%
1-408-880-00	s	INDUCTOR, MICRO	0.68	5%
1-408-763-00	s	INDUCTOR, MICRO	0.82	5%
1-408-397-00	s	INDUCTOR, MICRO	1.0	5%
1-408-398-00	s	INDUCTOR, MICRO	1.2	5%
1-408-399-00	s	INDUCTOR, MICRO	1.5	5%
1-408-400-00	s	INDUCTOR, MICRO	1.8	5%
1-408-401-00	s	INDUCTOR, MICRO	2.2	5%
1-408-402-00	s	INDUCTOR, MICRO	2.7	5%
1-408-403-00	s	INDUCTOR, MICRO	3.3	5%
1-408-404-00	s	INDUCTOR, MICRO	3.9	5%
1-408-405-00	s	INDUCTOR, MICRO	4.7	5%
1-408-406-00	s	INDUCTOR, MICRO	5.6	5%
1-408-407-00	s	INDUCTOR, MICRO	6.8	5%
1-408-408-00	s	INDUCTOR, MICRO	8.2	5%
1-408-409-00	s	INDUCTOR, MICRO	10	5%
1-408-410-00	s	INDUCTOR, MICRO	12	5%
1-408-411-00	s	INDUCTOR, MICRO	15	5%
1-408-412-00	s	INDUCTOR, MICRO	18	5%
1-408-413-00	s	INDUCTOR, MICRO	22	5%
1-408-414-00	s	INDUCTOR, MICRO	27	5%
1-408-415-00	s	INDUCTOR, MICRO	33	5%
1-408-416-00	s	INDUCTOR, MICRO	39	5%
1-408-417-21	s	INDUCTOR, MICRO	47	5%
1-408-418-00	s	INDUCTOR, MICRO	56	5%
1-408-419-00	s	INDUCTOR, MICRO	68	5%
1-408-420-00	s	INDUCTOR, MICRO	82	5%
1-408-421-00	s	INDUCTOR, MICRO	100	5%
1-408-422-00	s	INDUCTOR, MICRO	120	5%
1-408-423-00	s	INDUCTOR, MICRO	150	5%
1-408-424-00	s	INDUCTOR, MICRO	180	5%
1-408-425-00	s	INDUCTOR, MICRO	220	5%
1-408-426-00	s	INDUCTOR, MICRO	270	5%
1-408-427-00	s	INDUCTOR, MICRO	330	5%
1-408-428-00	s	INDUCTOR, MICRO	390	5%
1-408-429-00	s	INDUCTOR, MICRO	470	5%

EF-20 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-254-A	o	MOUNTED CIRCUIT BOARD, EF-20 (P)
1pc	1-563-521-11	o	CONNECTOR, 20P, FEMALE
1pc	2-139-140-01	o	PLATE, SHIELD
2pcs	2-182-909-01	o	LEVER, PC BOARD
16pcs	3-621-124-00	o	SPACER
1pc	7-621-772-40	s	SCREW +B 2X8
2pcs	7-626-320-11	o	PIN, SPRING 3X8
1pc	7-682-947-01	s	SCREW +PSW 3X6
6pcs	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
C1	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C5	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C9	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C13	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C17	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C21	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C25	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C29	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C33	1-131-353-00	s	TANTALUM 10uF 10% 35V
C35	1-131-353-00	s	TANTALUM 10uF 10% 35V
C51	1-131-353-00	s	TANTALUM 10uF 10% 35V
C53	1-131-353-00	s	TANTALUM 10uF 10% 35V
C61	1-131-353-00	s	TANTALUM 10uF 10% 35V
C62	1-131-353-00	s	TANTALUM 10uF 10% 35V
C66	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C67	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C68	1-131-353-00	s	TANTALUM 10uF 10% 35V
C69	1-131-353-00	s	TANTALUM 10uF 10% 35V
C76	1-131-353-00	s	TANTALUM 10uF 10% 35V
C78	1-131-353-00	s	TANTALUM 10uF 10% 35V
C81	1-107-211-00	s	MICA 24PF 5% 500V
C90	1-107-202-00	s	MICA 10PF 5% 500V
C98	1-109-539-00	s	MICA 150PF 5% 100V
C100	1-126-157-11	s	ELECT 10uF 20% 16V
C102	1-131-353-00	s	TANTALUM 10uF 10% 35V
C103	1-131-353-00	s	TANTALUM 10uF 10% 35V
C105	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C108	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C109	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C110	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C111	1-131-353-00	s	TANTALUM 10uF 10% 35V
C112	1-131-353-00	s	TANTALUM 10uF 10% 35V
C119	1-131-353-00	s	TANTALUM 10uF 10% 35V
C120	1-126-157-11	s	ELECT 10uF 20% 16V
C121	1-131-353-00	s	TANTALUM 10uF 10% 35V
C124	1-107-211-00	s	MICA 24PF 5% 500V
C130	1-107-202-00	s	MICA 10PF 5% 500V
C137	1-109-539-00	s	MICA 150PF 5% 100V
C140	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C141	1-131-353-00	s	TANTALUM 10uF 10% 35V
C142	1-131-353-00	s	TANTALUM 10uF 10% 35V
C144	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C147	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C148	1-131-353-00	s	TANTALUM 10uF 10% 35V
C149	1-131-353-00	s	TANTALUM 10uF 10% 35V
C164	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C165	1-131-353-00	s	TANTALUM 10uF 10% 35V
C166	1-126-157-11	s	ELECT 10uF 20% 16V
C167	1-131-353-00	s	TANTALUM 10uF 10% 35V
C170	1-107-211-00	s	MICA 24PF 5% 500V

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(EF-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C176	1-107-202-00	s	MICA 10PF 5% 500V
C183	1-109-539-00	s	MICA 150PF 5% 100V
C187	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C188	1-131-353-00	s	TANTALUM 10uF 10% 35V
C189	1-131-353-00	s	TANTALUM 10uF 10% 35V
C191	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C194	1-124-120-11	s	ELECT 220uF 20% 25V
C195	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C196	1-131-353-00	s	TANTALUM 10uF 10% 35V
C197	1-131-353-00	s	TANTALUM 10uF 10% 35V
C212	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C213	1-131-353-00	s	TANTALUM 10uF 10% 35V
C214	1-126-157-11	s	ELECT 10uF 20% 16V
C215	1-131-353-00	s	TANTALUM 10uF 10% 35V
C218	1-107-211-00	s	MICA 24PF 5% 500V
C223	1-107-202-00	s	MICA 10PF 5% 500V
C231	1-109-539-00	s	MICA 150PF 5% 100V
C234	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C235	1-131-353-00	s	TANTALUM 10uF 10% 35V
C236	1-131-353-00	s	TANTALUM 10uF 10% 35V
C238	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C241	1-124-120-11	s	ELECT 220uF 20% 25V
C244	1-131-353-00	s	TANTALUM 10uF 10% 35V
C245	1-131-353-00	s	TANTALUM 10uF 10% 35V
C246	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C247	1-107-211-00	s	MICA 24PF 5% 500V
C253	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C254	1-107-211-00	s	MICA 24PF 5% 500V
C266	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C269	1-107-019-00	s	MICA 1PF 500V
C270	1-131-353-00	s	TANTALUM 10uF 10% 35V
C271	1-131-353-00	s	TANTALUM 10uF 10% 35V
C280	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C283	1-107-019-00	s	MICA 1PF 500V
C284	1-131-353-00	s	TANTALUM 10uF 10% 35V
C285	1-131-353-00	s	TANTALUM 10uF 10% 35V
C287	1-131-353-00	s	TANTALUM 10uF 10% 35V
C288	1-131-353-00	s	TANTALUM 10uF 10% 35V
C296	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C297	1-107-211-00	s	MICA 24PF 5% 500V
C299	1-131-353-00	s	TANTALUM 10uF 10% 35V
C300	1-131-353-00	s	TANTALUM 10uF 10% 35V
C301	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C302	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C303	1-107-210-00	s	MICA 22PF 5% 500V
C304	1-131-353-00	s	TANTALUM 10uF 10% 35V
C305	1-131-353-00	s	TANTALUM 10uF 10% 35V
C306	1-131-353-00	s	TANTALUM 10uF 10% 35V
C307	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C308	1-131-353-00	s	TANTALUM 10uF 10% 35V
C313	1-131-353-00	s	TANTALUM 10uF 10% 35V
C314	1-131-353-00	s	TANTALUM 10uF 10% 35V
C315	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C320	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C331	1-107-019-00	s	MICA 1PF 500V
C336	1-107-208-00	s	MICA 18PF 5% 500V
C340	1-131-353-00	s	TANTALUM 10uF 10% 35V
C341	1-131-353-00	s	TANTALUM 10uF 10% 35V
C342	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V

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Ref. No. or Q'ty	Part No.	SP	Description
C343	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C344	1-131-353-00	s	TANTALUM 10uF 10% 35V
C345	1-131-353-00	s	TANTALUM 10uF 10% 35V
C346	1-131-353-00	s	TANTALUM 10uF 10% 35V
C347	1-107-210-00	s	MICA 22PF 5% 500V
C348	1-131-353-00	s	TANTALUM 10uF 10% 35V
C356	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C362	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C366	1-107-208-00	s	MICA 18PF 5% 500V
C370	1-131-353-00	s	TANTALUM 10uF 10% 35V
C371	1-131-353-00	s	TANTALUM 10uF 10% 35V
C372	1-131-353-00	s	TANTALUM 10uF 10% 35V
C373	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C381	1-124-589-11	s	ELECT 47uF 20% 16V
C385	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C387	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C389	1-163-100-00	s	CERAMIC, CHIP 20PF 5% 50V
C393	1-131-353-00	s	TANTALUM 10uF 10% 35V
C394	1-131-353-00	s	TANTALUM 10uF 10% 35V
C398	1-124-589-11	s	ELECT 47uF 20% 16V
C400	1-124-584-00	s	ELECT 100uF 20% 10V
C403	1-131-353-00	s	TANTALUM 10uF 10% 35V
C404	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C409	1-107-048-00	s	MICA 6.8PF 500V
C410	1-107-048-00	s	MICA 6.8PF 500V
C420	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
CN1	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN2	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN3	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CV1	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV2	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV3	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV4	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV6	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV7	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV8	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV9	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV10	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV12	1-141-291-11	s	CAP, CERAMIC TRIMMER
D1	8-719-100-03	s	DIODE 1S2835
D2	8-719-100-03	s	DIODE 1S2835
D4	8-719-800-76	s	DIODE 1SS226
D6	8-719-800-76	s	DIODE 1SS226
D7	8-719-911-19	s	DIODE 1SS119
D8	8-719-911-19	s	DIODE 1SS119
DL1	1-415-167-00	s	DELAY LINE
DL2	1-415-167-00	s	DELAY LINE
DL3	1-415-167-00	s	DELAY LINE
DL4	1-415-167-00	s	DELAY LINE
DL5	1-415-316-00	s	DELAY LINE 200nS
DL6	1-415-184-00	s	DELAY LINE 100nS
DL7	1-415-184-00	s	DELAY LINE 100nS
DL8	1-415-184-00	s	DELAY LINE 100nS
DL9	1-415-184-00	s	DELAY LINE 100nS
IC1	1-808-422-11	s	VIDEO INPUT MODULE
IC2	1-808-422-11	s	VIDEO INPUT MODULE
IC3	1-808-422-11	s	VIDEO INPUT MODULE

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Ref. No. or Q'ty	Part No.	SP	Description
IC4	1-808-422-11	s	VIDEO INPUT MODULE
IC5	1-808-422-11	s	VIDEO INPUT MODULE
IC6	1-808-422-11	s	VIDEO INPUT MODULE
IC7	1-808-422-11	s	VIDEO INPUT MODULE
IC8	1-808-422-11	s	VIDEO INPUT MODULE
IC9	8-759-207-31	s	IC TC74HC4028F
IC10	8-759-207-31	s	IC TC74HC4028F
IC11	8-759-207-31	s	IC TC74HC4028F
IC12	8-759-207-31	s	IC TC74HC4028F
IC13	8-759-207-31	s	IC TC74HC4028F
IC14	8-759-207-31	s	IC TC74HC4028F
IC15	8-759-204-94	s	IC TC74HC00F
IC18	8-759-702-07	s	IC NJM13700M
IC19	8-759-972-26	s	IC LM1881N
IC20	8-759-009-51	s	IC MC14538BF
IC21	8-759-926-18	s	IC SN74HC157NS
IC22	8-759-981-65	s	IC LM2903M
IC23	8-759-008-82	s	IC MC14013BF
IC24	8-759-981-65	s	IC LM2903M
IC26	8-759-972-26	s	IC LM1881N
IC28	8-759-926-18	s	IC SN74HC157NS
IC29	8-759-981-65	s	IC LM2903M
IC30	8-759-009-67	s	IC MC14584BF
IC31	8-759-003-17	s	IC LM317T
IC33	8-759-702-07	s	IC NJM13700M
IC34	8-759-972-26	s	IC LM1881N
IC35	8-759-009-51	s	IC MC14538BF
IC36	8-759-926-18	s	IC SN74HC157NS
IC37	8-759-981-65	s	IC LM2903M
IC38	8-759-008-82	s	IC MC14013BF
IC41	8-759-702-07	s	IC NJM13700M
IC42	8-759-972-26	s	IC LM1881N
IC44	8-759-926-18	s	IC SN74HC157NS
IC45	8-759-981-65	s	IC LM2903M
IC46	8-759-009-67	s	IC MC14584BF
IC47	8-759-702-07	s	IC NJM13700M
IC48	8-759-009-06	s	IC MC14052BF
IC49	8-759-141-61	s	IC UPA103G
IC50	8-759-141-60	s	IC UPA101G
IC51	8-759-009-06	s	IC MC14052BF
IC52	8-759-141-61	s	IC UPA103G
IC53	8-759-141-60	s	IC UPA101G
IC54	8-759-702-07	s	IC NJM13700M
IC55	8-759-009-07	s	IC MC14053BF
IC56	8-741-100-43	s	IC SBX1595-01
IC57	8-759-702-07	s	IC NJM13700M
IC58	8-759-971-95	s	IC LM317LZ
IC59	8-759-141-61	s	IC UPA103G
IC60	8-759-141-60	s	IC UPA101G
IC61	8-759-908-17	s	IC TL082CPS
IC62	8-759-141-61	s	IC UPA103G
IC63	8-759-141-60	s	IC UPA101G
IC64	8-759-141-61	s	IC UPA103G
IC65	8-741-100-43	s	IC SBX1595-01
IC66	8-759-141-61	s	IC UPA103G
IC67	8-759-141-60	s	IC UPA101G
IC68	8-759-702-07	s	IC NJM13700M
IC69	8-759-971-95	s	IC LM317LZ
IC70	8-759-702-07	s	IC NJM13700M

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
IC71	8-759-204-94	s	IC TC74HC00F
IC72	8-759-204-94	s	IC TC74HC00F
IC73	8-759-982-31	s	IC RC78M05FA
IC74	8-759-009-07	s	IC MC14053BF
IC75	8-759-009-07	s	IC MC14053BF
IC76	8-759-009-07	s	IC MC14053BF
IC77	8-759-982-22	s	IC RC78L06A
IC78	8-759-982-45	s	IC RC79L06A
L1	1-410-718-31	s	INDUCTOR, CHIP 120uH
L2	1-410-709-31	s	INDUCTOR, CHIP 22uH
L3	1-410-718-31	s	INDUCTOR, CHIP 120uH
L4	1-410-709-31	s	INDUCTOR, CHIP 22uH
L5	1-410-718-31	s	INDUCTOR, CHIP 120uH
L6	1-410-709-31	s	INDUCTOR, CHIP 22uH
L7	1-410-718-31	s	INDUCTOR, CHIP 120uH
L8	1-410-709-31	s	INDUCTOR, CHIP 22uH
L9	1-410-718-31	s	INDUCTOR, CHIP 120uH
L10	1-410-718-31	s	INDUCTOR, CHIP 120uH
L11	1-410-718-31	s	INDUCTOR, CHIP 120uH
L12	1-410-718-31	s	INDUCTOR, CHIP 120uH
L13	1-410-718-31	s	INDUCTOR, CHIP 120uH
L15	1-410-718-31	s	INDUCTOR, CHIP 120uH
L16	1-410-718-31	s	INDUCTOR, CHIP 120uH
L17	1-410-718-31	s	INDUCTOR, CHIP 120uH
L19	1-410-718-31	s	INDUCTOR, CHIP 120uH
L20	1-410-718-31	s	INDUCTOR, CHIP 120uH
L22	1-410-718-31	s	INDUCTOR, CHIP 120uH
Q1	8-729-175-73	s	TRANSISTOR 2SC2757
Q2	8-729-112-65	s	TRANSISTOR 2SA1462
Q3	8-729-175-73	s	TRANSISTOR 2SC2757
Q4	8-729-112-65	s	TRANSISTOR 2SA1462
Q5	8-729-175-73	s	TRANSISTOR 2SC2757
Q6	8-729-112-65	s	TRANSISTOR 2SA1462
Q7	8-729-175-73	s	TRANSISTOR 2SC2757
Q8	8-729-112-65	s	TRANSISTOR 2SA1462
Q9	8-729-175-73	s	TRANSISTOR 2SC2757
Q10	8-729-112-65	s	TRANSISTOR 2SA1462
Q11	8-729-175-73	s	TRANSISTOR 2SC2757
Q12	8-729-112-65	s	TRANSISTOR 2SA1462
Q13	8-729-175-73	s	TRANSISTOR 2SC2757
Q14	8-729-112-65	s	TRANSISTOR 2SA1462
Q15	8-729-175-73	s	TRANSISTOR 2SC2757
Q16	8-729-112-65	s	TRANSISTOR 2SA1462
Q17	8-729-175-73	s	TRANSISTOR 2SC2757
Q18	8-729-112-65	s	TRANSISTOR 2SA1462
Q19	8-729-175-73	s	TRANSISTOR 2SC2757
Q20	8-729-112-65	s	TRANSISTOR 2SA1462
Q21	8-729-112-65	s	TRANSISTOR 2SA1462
Q22	8-729-175-73	s	TRANSISTOR 2SC2757
Q23	8-729-112-65	s	TRANSISTOR 2SA1462
Q24	8-729-175-73	s	TRANSISTOR 2SC2757
Q25	8-729-175-73	s	TRANSISTOR 2SC2757
Q26	8-729-112-65	s	TRANSISTOR 2SA1462
Q27	8-729-112-65	s	TRANSISTOR 2SA1462
Q28	8-729-175-73	s	TRANSISTOR 2SC2757
Q29	8-729-112-65	s	TRANSISTOR 2SA1462
Q30	8-729-112-65	s	TRANSISTOR 2SA1462
Q31	8-729-112-65	s	TRANSISTOR 2SA1462

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Ref. No. or Q'ty	Part No.	SP	Description
Q32	8-729-175-73	s	TRANSISTOR 2SC2757
Q33	8-729-175-73	s	TRANSISTOR 2SC2757
Q34	8-729-175-73	s	TRANSISTOR 2SC2757
Q35	8-729-175-73	s	TRANSISTOR 2SC2757
Q36	8-729-175-73	s	TRANSISTOR 2SC2757
Q37	8-729-100-66	s	TRANSISTOR 2SC1623
Q38	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q39	8-729-112-65	s	TRANSISTOR 2SA1462
Q40	8-729-100-66	s	TRANSISTOR 2SC1623
Q41	8-729-216-22	s	TRANSISTOR 2SA1162
Q42	8-729-216-22	s	TRANSISTOR 2SA1162
Q43	8-729-100-66	s	TRANSISTOR 2SC1623
Q44	8-729-175-73	s	TRANSISTOR 2SC2757
Q45	8-729-112-65	s	TRANSISTOR 2SA1462
Q46	8-729-112-65	s	TRANSISTOR 2SA1462
Q47	8-729-175-73	s	TRANSISTOR 2SC2757
Q48	8-729-112-65	s	TRANSISTOR 2SA1462
Q49	8-729-112-65	s	TRANSISTOR 2SA1462
Q50	8-729-112-65	s	TRANSISTOR 2SA1462
Q51	8-729-175-73	s	TRANSISTOR 2SC2757
Q52	8-729-175-73	s	TRANSISTOR 2SC2757
Q53	8-729-175-73	s	TRANSISTOR 2SC2757
Q54	8-729-175-73	s	TRANSISTOR 2SC2757
Q55	8-729-175-73	s	TRANSISTOR 2SC2757
Q56	8-729-100-66	s	TRANSISTOR 2SC1623
Q57	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q58	8-729-112-65	s	TRANSISTOR 2SA1462
Q59	8-729-100-66	s	TRANSISTOR 2SC1623
Q60	8-729-216-22	s	TRANSISTOR 2SA1162
Q61	8-729-216-22	s	TRANSISTOR 2SA1162
Q62	8-729-100-66	s	TRANSISTOR 2SC1623
Q63	8-729-175-73	s	TRANSISTOR 2SC2757
Q64	8-729-112-65	s	TRANSISTOR 2SA1462
Q65	8-729-112-65	s	TRANSISTOR 2SA1462
Q66	8-729-175-73	s	TRANSISTOR 2SC2757
Q67	8-729-112-65	s	TRANSISTOR 2SA1462
Q68	8-729-112-65	s	TRANSISTOR 2SA1462
Q69	8-729-175-73	s	TRANSISTOR 2SC2757
Q70	8-729-175-73	s	TRANSISTOR 2SC2757
Q71	8-729-112-65	s	TRANSISTOR 2SA1462
Q72	8-729-112-65	s	TRANSISTOR 2SA1462
Q73	8-729-175-73	s	TRANSISTOR 2SC2757
Q74	8-729-112-65	s	TRANSISTOR 2SA1462
Q75	8-729-112-65	s	TRANSISTOR 2SA1462
Q76	8-729-175-73	s	TRANSISTOR 2SC2757
Q77	8-729-112-65	s	TRANSISTOR 2SA1462
Q78	8-729-112-65	s	TRANSISTOR 2SA1462
Q79	8-729-112-65	s	TRANSISTOR 2SA1462
Q80	8-729-175-73	s	TRANSISTOR 2SC2757
Q81	8-729-175-73	s	TRANSISTOR 2SC2757
Q82	8-729-175-73	s	TRANSISTOR 2SC2757
Q83	8-729-175-73	s	TRANSISTOR 2SC2757
Q84	8-729-175-73	s	TRANSISTOR 2SC2757
Q85	8-729-100-66	s	TRANSISTOR 2SC1623
Q86	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q87	8-729-112-65	s	TRANSISTOR 2SA1462
Q88	8-729-100-66	s	TRANSISTOR 2SC1623
Q89	8-729-216-22	s	TRANSISTOR 2SA1162
Q90	8-729-216-22	s	TRANSISTOR 2SA1162

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
Q91	8-729-100-66	s	TRANSISTOR 2SC1623
Q92	8-729-175-73	s	TRANSISTOR 2SC2757
Q93	8-729-112-65	s	TRANSISTOR 2SA1462
Q94	8-729-112-65	s	TRANSISTOR 2SA1462
Q95	8-729-175-73	s	TRANSISTOR 2SC2757
Q96	8-729-112-65	s	TRANSISTOR 2SA1462
Q97	8-729-112-65	s	TRANSISTOR 2SA1462
Q98	8-729-175-73	s	TRANSISTOR 2SC2757
Q99	8-729-175-73	s	TRANSISTOR 2SC2757
Q100	8-729-112-65	s	TRANSISTOR 2SA1462
Q101	8-729-112-65	s	TRANSISTOR 2SA1462
Q102	8-729-175-73	s	TRANSISTOR 2SC2757
Q103	8-729-112-65	s	TRANSISTOR 2SA1462
Q104	8-729-112-65	s	TRANSISTOR 2SA1462
Q105	8-729-175-73	s	TRANSISTOR 2SC2757
Q106	8-729-112-65	s	TRANSISTOR 2SA1462
Q107	8-729-112-65	s	TRANSISTOR 2SA1462
Q108	8-729-112-65	s	TRANSISTOR 2SA1462
Q109	8-729-175-73	s	TRANSISTOR 2SC2757
Q110	8-729-175-73	s	TRANSISTOR 2SC2757
Q111	8-729-175-73	s	TRANSISTOR 2SC2757
Q112	8-729-175-73	s	TRANSISTOR 2SC2757
Q113	8-729-175-73	s	TRANSISTOR 2SC2757
Q114	8-729-100-66	s	TRANSISTOR 2SC1623
Q115	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q116	8-729-112-65	s	TRANSISTOR 2SA1462
Q117	8-729-100-66	s	TRANSISTOR 2SC1623
Q118	8-729-216-22	s	TRANSISTOR 2SA1162
Q119	8-729-216-22	s	TRANSISTOR 2SA1162
Q120	8-729-100-66	s	TRANSISTOR 2SC1623
Q121	8-729-175-73	s	TRANSISTOR 2SC2757
Q122	8-729-175-73	s	TRANSISTOR 2SC2757
Q123	8-729-175-73	s	TRANSISTOR 2SC2757
Q124	8-729-175-73	s	TRANSISTOR 2SC2757
Q125	8-729-175-73	s	TRANSISTOR 2SC2757
Q126	8-729-100-66	s	TRANSISTOR 2SC1623
Q127	8-729-216-22	s	TRANSISTOR 2SA1162
Q128	8-729-100-66	s	TRANSISTOR 2SC1623
Q129	8-729-216-22	s	TRANSISTOR 2SA1162
Q130	8-729-175-73	s	TRANSISTOR 2SC2757
Q131	8-729-100-66	s	TRANSISTOR 2SC1623
Q132	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q133	8-729-216-22	s	TRANSISTOR 2SA1162
Q134	8-729-175-73	s	TRANSISTOR 2SC2757
Q135	8-729-100-66	s	TRANSISTOR 2SC1623
Q136	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q137	8-729-216-22	s	TRANSISTOR 2SA1162
Q138	8-729-175-73	s	TRANSISTOR 2SC2757
Q139	8-729-175-73	s	TRANSISTOR 2SC2757
Q140	8-729-175-73	s	TRANSISTOR 2SC2757
Q141	8-729-175-73	s	TRANSISTOR 2SC2757
Q142	8-729-112-65	s	TRANSISTOR 2SA1462
Q143	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q144	8-729-175-73	s	TRANSISTOR 2SC2757
Q145	8-729-112-65	s	TRANSISTOR 2SA1462
Q146	8-729-175-73	s	TRANSISTOR 2SC2757
Q147	8-729-175-73	s	TRANSISTOR 2SC2757
Q148	8-729-175-73	s	TRANSISTOR 2SC2757
Q149	8-729-175-73	s	TRANSISTOR 2SC2757

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Ref. No. or Q'ty	Part No.	SP	Description
Q150	8-729-112-65	s	TRANSISTOR 2SA1462
Q151	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q152	8-729-175-73	s	TRANSISTOR 2SC2757
Q153	8-729-112-65	s	TRANSISTOR 2SA1462
Q154	8-729-100-66	s	TRANSISTOR 2SC1623
Q155	8-729-216-22	s	TRANSISTOR 2SA1162
Q156	8-729-100-66	s	TRANSISTOR 2SC1623
Q157	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q158	8-729-112-65	s	TRANSISTOR 2SA1462
Q159	8-729-112-65	s	TRANSISTOR 2SA1462
Q160	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q161	8-729-100-66	s	TRANSISTOR 2SC1623
Q162	8-729-175-73	s	TRANSISTOR 2SC2757
Q163	8-729-175-73	s	TRANSISTOR 2SC2757
Q164	8-729-175-73	s	TRANSISTOR 2SC2757
Q165	8-729-175-73	s	TRANSISTOR 2SC2757
Q166	8-729-175-73	s	TRANSISTOR 2SC2757
Q167	8-729-216-22	s	TRANSISTOR 2SA1162
Q168	8-729-175-73	s	TRANSISTOR 2SC2757
Q169	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q170	8-729-175-73	s	TRANSISTOR 2SC2757
Q171	8-729-175-73	s	TRANSISTOR 2SC2757
Q172	8-729-112-65	s	TRANSISTOR 2SA1462
Q173	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q174	8-729-112-65	s	TRANSISTOR 2SA1462
Q175	8-729-112-65	s	TRANSISTOR 2SA1462
Q176	8-729-175-73	s	TRANSISTOR 2SC2757
Q177	8-729-175-73	s	TRANSISTOR 2SC2757
Q178	8-729-112-65	s	TRANSISTOR 2SA1462
Q179	8-729-100-66	s	TRANSISTOR 2SC1623
Q180	8-729-112-65	s	TRANSISTOR 2SA1462
Q181	8-729-112-65	s	TRANSISTOR 2SA1462
Q182	8-729-175-73	s	TRANSISTOR 2SC2757
Q183	8-729-175-73	s	TRANSISTOR 2SC2757
Q184	8-729-175-73	s	TRANSISTOR 2SC2757
Q185	8-729-100-66	s	TRANSISTOR 2SC1623
Q186	8-729-100-66	s	TRANSISTOR 2SC1623
Q187	8-729-100-66	s	TRANSISTOR 2SC1623
Q189	8-729-216-22	s	TRANSISTOR 2SA1162
Q190	8-729-216-22	s	TRANSISTOR 2SA1162
Q191	8-729-216-22	s	TRANSISTOR 2SA1162
Q193	8-729-175-73	s	TRANSISTOR 2SC2757
Q194	8-729-175-73	s	TRANSISTOR 2SC2757
Q195	8-729-112-65	s	TRANSISTOR 2SA1462
Q196	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q197	8-729-175-73	s	TRANSISTOR 2SC2757
Q198	8-729-112-65	s	TRANSISTOR 2SA1462
Q199	8-729-175-73	s	TRANSISTOR 2SC2757
Q200	8-729-112-65	s	TRANSISTOR 2SA1462
Q201	8-729-112-65	s	TRANSISTOR 2SA1462
Q202	8-729-175-73	s	TRANSISTOR 2SC2757
Q203	8-729-112-65	s	TRANSISTOR 2SA1462
Q204	8-729-112-65	s	TRANSISTOR 2SA1462
Q205	8-729-112-65	s	TRANSISTOR 2SA1462
Q206	8-729-112-65	s	TRANSISTOR 2SA1462
Q207	8-729-175-73	s	TRANSISTOR 2SC2757
Q208	8-729-175-73	s	TRANSISTOR 2SC2757
Q209	8-729-175-73	s	TRANSISTOR 2SC2757
Q210	8-729-175-73	s	TRANSISTOR 2SC2757

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
Q211	8-729-100-66	s	TRANSISTOR 2SC1623
Q212	8-729-100-66	s	TRANSISTOR 2SC1623
Q213	8-729-216-22	s	TRANSISTOR 2SA1162
Q214	8-729-216-22	s	TRANSISTOR 2SA1162
Q215	8-729-216-22	s	TRANSISTOR 2SA1162
Q216	8-729-216-22	s	TRANSISTOR 2SA1162
Q217	8-729-100-66	s	TRANSISTOR 2SC1623
Q218	8-729-216-22	s	TRANSISTOR 2SA1162
Q219	8-729-216-22	s	TRANSISTOR 2SA1162
Q220	8-729-100-66	s	TRANSISTOR 2SC1623
Q221	8-729-216-22	s	TRANSISTOR 2SA1162
Q222	8-729-216-22	s	TRANSISTOR 2SA1162
Q223	8-729-100-66	s	TRANSISTOR 2SC1623
Q224	8-729-216-22	s	TRANSISTOR 2SA1162
Q225	8-729-216-22	s	TRANSISTOR 2SA1162
Q226	8-729-100-66	s	TRANSISTOR 2SC1623
Q227	8-729-216-22	s	TRANSISTOR 2SA1162
Q228	8-729-216-22	s	TRANSISTOR 2SA1162
Q229	8-729-175-73	s	TRANSISTOR 2SC2757
Q230	8-729-100-66	s	TRANSISTOR 2SC1623
Q231	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q232	8-729-216-22	s	TRANSISTOR 2SA1162
Q234	8-729-112-65	s	TRANSISTOR 2SA1462
Q235	8-729-175-73	s	TRANSISTOR 2SC2757
Q237	8-729-175-73	s	TRANSISTOR 2SC2757
Q238	8-729-175-73	s	TRANSISTOR 2SC2757
Q240	8-729-112-65	s	TRANSISTOR 2SA1462
Q241	8-729-112-65	s	TRANSISTOR 2SA1462
Q242	8-729-175-73	s	TRANSISTOR 2SC2757
Q243	8-729-175-73	s	TRANSISTOR 2SC2757
Q244	8-729-175-73	s	TRANSISTOR 2SC2757
Q245	8-729-175-73	s	TRANSISTOR 2SC2757
Q246	8-729-175-73	s	TRANSISTOR 2SC2757
Q247	8-729-175-73	s	TRANSISTOR 2SC2757
Q248	8-729-175-73	s	TRANSISTOR 2SC2757
Q249	8-729-175-73	s	TRANSISTOR 2SC2757
Q250	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q251	8-729-112-65	s	TRANSISTOR 2SA1462
Q252	8-729-175-73	s	TRANSISTOR 2SC2757
Q253	8-729-112-65	s	TRANSISTOR 2SA1462
Q254	8-729-112-65	s	TRANSISTOR 2SA1462
Q255	8-729-175-73	s	TRANSISTOR 2SC2757
Q256	8-729-112-65	s	TRANSISTOR 2SA1462
Q257	8-729-112-65	s	TRANSISTOR 2SA1462
R362	1-216-309-00	s	METAL 5.6 5% 1/10W
R363	1-216-309-00	s	METAL 5.6 5% 1/10W
R364	1-215-394-00	s	METAL 75 1% 1/6W
R608	1-216-309-00	s	METAL 5.6 5% 1/10W
R609	1-216-309-00	s	METAL 5.6 5% 1/10W
R610	1-216-309-00	s	METAL 5.6 5% 1/10W
R611	1-216-309-00	s	METAL 5.6 5% 1/10W
R612	1-215-394-00	s	METAL 75 1% 1/6W
R613	1-215-394-00	s	METAL 75 1% 1/6W
R614	1-215-394-00	s	METAL 75 1% 1/6W
R680	1-216-309-00	s	METAL 5.6 5% 1/10W
R681	1-216-309-00	s	METAL 5.6 5% 1/10W
R682	1-215-394-00	s	METAL 75 1% 1/6W
R780	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R781	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W

(EF-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R962	1-249-418-11	s	CARBON 1.2K 5% 1/4W
R963	1-249-418-11	s	CARBON 1.2K 5% 1/4W
R978	1-215-449-11	s	METAL FILM 15K
RV1	1-237-032-11	s	RES, ADJ, METAL 500
RV2	1-237-032-11	s	RES, ADJ, METAL 500
RV3	1-237-036-11	s	RES, ADJ, METAL 10K
RV4	1-237-035-11	s	RES, ADJ, METAL 5K
RV5	1-237-037-11	s	RES, ADJ, METAL 20K
RV6	1-237-032-11	s	RES, ADJ, METAL 500
RV7	1-237-032-11	s	RES, ADJ, METAL 500
RV8	1-237-036-11	s	RES, ADJ, METAL 10K
RV9	1-237-035-11	s	RES, ADJ, METAL 5K
RV10	1-237-037-11	s	RES, ADJ, METAL 20K
RV11	1-237-032-11	s	RES, ADJ, METAL 500
RV12	1-237-032-11	s	RES, ADJ, METAL 500
RV14	1-237-035-11	s	RES, ADJ, METAL 5K
RV15	1-237-037-11	s	RES, ADJ, METAL 20K
RV16	1-237-032-11	s	RES, ADJ, METAL 500
RV17	1-237-032-11	s	RES, ADJ, METAL 500
RV19	1-237-035-11	s	RES, ADJ, METAL 5K
RV20	1-237-037-11	s	RES, ADJ, METAL 20K
RV21	1-237-032-11	s	RES, ADJ, METAL 500
RV23	1-237-032-11	s	RES, ADJ, METAL 500
RV24	1-237-037-11	s	RES, ADJ, METAL 20K
RV25	1-237-032-11	s	RES, ADJ, METAL 500
RV26	1-237-037-11	s	RES, ADJ, METAL 20K
RV27	1-237-031-11	s	RES, ADJ, METAL 200
RV28	1-237-035-11	s	RES, ADJ, METAL 5K
RV30	1-237-034-11	s	RES, ADJ, METAL 2K
RV31	1-237-033-11	s	RES, ADJ, METAL 1K
RV32	1-237-036-11	s	RES, ADJ, METAL 10K
RV33	1-237-031-11	s	RES, ADJ, METAL 200
RV34	1-237-035-11	s	RES, ADJ, METAL 5K
RV36	1-237-034-11	s	RES, ADJ, METAL 2K
RV37	1-237-033-11	s	RES, ADJ, METAL 1K
RV38	1-237-036-11	s	RES, ADJ, METAL 10K
RV39	1-237-032-11	s	RES, ADJ, METAL 500
RV39	1-237-033-11	s	RES, ADJ, METAL 1K
RV39	1-237-033-11	s	RES, ADJ, METAL 1K
RV40	1-237-032-11	s	RES, ADJ, METAL 500
RV40	1-237-033-11	s	RES, ADJ, METAL 1K
RV40	1-237-033-11	s	RES, ADJ, METAL 1K
RV42	1-237-032-11	s	RES, ADJ, METAL 500
RV43	1-237-032-11	s	RES, ADJ, METAL 500
RV44	1-237-030-11	s	RES, ADJ, CERMET 100
RV45	1-237-034-11	s	RES, ADJ, METAL 2K
RV46	1-237-035-11	s	RES, ADJ, METAL 5K
RV47	1-237-035-11	s	RES, ADJ, METAL 5K
RV48	1-237-034-11	s	RES, ADJ, METAL 2K
RV49	1-237-033-11	s	RES, ADJ, METAL 1K
RV50	1-237-034-11	s	RES, ADJ, METAL 2K
RV51	1-237-033-11	s	RES, ADJ, METAL 1K
RV52	1-237-033-11	s	RES, ADJ, METAL 1K
RV53	1-237-033-11	s	RES, ADJ, METAL 1K
RV54	1-237-498-21	s	RES, ADJ, CERMET 200
RV55	1-237-032-11	s	RES, ADJ, METAL 500
RV56	1-237-035-11	s	RES, ADJ, METAL 5K
RV57	1-237-034-11	s	RES, ADJ, METAL 2K

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
RV58	1-237-033-11	s	RES, ADJ, METAL 1K
RV59	1-237-033-11	s	RES, ADJ, METAL 1K
RV60	1-237-498-21	s	RES, ADJ, CERMET 200
RV61	1-237-029-11	s	RES, ADJ, METAL 50
RV62	1-237-032-11	s	RES, ADJ, METAL 500
RV64	1-237-030-11	s	RES, ADJ, CERMET 100
RV65	1-237-037-11	s	RES, ADJ, METAL 20K
RV66	1-237-037-11	s	RES, ADJ, METAL 20K
RV67	1-237-037-11	s	RES, ADJ, METAL 20K
RV68	1-237-037-11	s	RES, ADJ, METAL 20K
RV69	1-237-037-11	s	RES, ADJ, METAL 20K
RV70	1-237-037-11	s	RES, ADJ, METAL 20K
RV71	1-237-030-11	s	RES, ADJ, CERMET 100

EF-20C BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-256-A	o	MOUNTED CIRCUIT BOARD, EF-20C (P)
1pc	1-563-521-11	o	CONNECTOR, 20P, FEMALE
1pc	2-139-140-01	o	PLATE, SHIELD
2pcs	2-182-909-01	o	LEVER, PC BOARD
1pc	7-621-772-40	s	SCREW +B 2X8
2pcs	7-626-320-11	o	PIN, SPRING 3X8
1pc	7-682-947-01	s	SCREW +PSW 3X6
6pcs	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
C1	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C5	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C9	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C13	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C17	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C21	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C25	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C29	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C33	1-131-353-00	s	TANTALUM 10uF 10% 35V
C35	1-131-353-00	s	TANTALUM 10uF 10% 35V
C51	1-131-353-00	s	TANTALUM 10uF 10% 35V
C53	1-131-353-00	s	TANTALUM 10uF 10% 35V
C61	1-131-353-00	s	TANTALUM 10uF 10% 35V
C62	1-131-353-00	s	TANTALUM 10uF 10% 35V
C66	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C67	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C68	1-131-353-00	s	TANTALUM 10uF 10% 35V
C69	1-131-353-00	s	TANTALUM 10uF 10% 35V
C76	1-131-353-00	s	TANTALUM 10uF 10% 35V
C78	1-131-353-00	s	TANTALUM 10uF 10% 35V
C81	1-107-211-00	s	MICA 24PF 5% 500V
C90	1-107-202-00	s	MICA 10PF 5% 500V
C100	1-126-157-11	s	ELECT 10uF 20% 16V
C102	1-131-353-00	s	TANTALUM 10uF 10% 35V
C103	1-131-353-00	s	TANTALUM 10uF 10% 35V
C108	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C109	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C110	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C111	1-131-353-00	s	TANTALUM 10uF 10% 35V
C112	1-131-353-00	s	TANTALUM 10uF 10% 35V
C119	1-131-353-00	s	TANTALUM 10uF 10% 35V
C120	1-126-157-11	s	ELECT 10uF 20% 16V
C121	1-131-353-00	s	TANTALUM 10uF 10% 35V
C124	1-107-211-00	s	MICA 24PF 5% 500V
C130	1-107-202-00	s	MICA 10PF 5% 500V
C140	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C141	1-131-353-00	s	TANTALUM 10uF 10% 35V
C142	1-131-353-00	s	TANTALUM 10uF 10% 35V
C147	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C148	1-131-353-00	s	TANTALUM 10uF 10% 35V
C149	1-131-353-00	s	TANTALUM 10uF 10% 35V
C164	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C165	1-131-353-00	s	TANTALUM 10uF 10% 35V
C166	1-126-157-11	s	ELECT 10uF 20% 16V
C167	1-131-353-00	s	TANTALUM 10uF 10% 35V
C170	1-107-211-00	s	MICA 24PF 5% 500V
C176	1-107-202-00	s	MICA 10PF 5% 500V
C187	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C188	1-131-353-00	s	TANTALUM 10uF 10% 35V
C189	1-131-353-00	s	TANTALUM 10uF 10% 35V

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(EF-20C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C194	1-124-120-11	s	ELECT 220uF 20% 25V
C195	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C196	1-131-353-00	s	TANTALUM 10uF 10% 35V
C197	1-131-353-00	s	TANTALUM 10uF 10% 35V
C212	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C213	1-131-353-00	s	TANTALUM 10uF 10% 35V
C214	1-126-157-11	s	ELECT 10uF 20% 16V
C215	1-131-353-00	s	TANTALUM 10uF 10% 35V
C218	1-107-211-00	s	MICA 24PF 5% 500V
C223	1-107-202-00	s	MICA 10PF 5% 500V
C234	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C235	1-131-353-00	s	TANTALUM 10uF 10% 35V
C236	1-131-353-00	s	TANTALUM 10uF 10% 35V
C241	1-124-120-11	s	ELECT 220uF 20% 25V
C244	1-131-353-00	s	TANTALUM 10uF 10% 35V
C245	1-131-353-00	s	TANTALUM 10uF 10% 35V
C246	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C247	1-107-211-00	s	MICA 24PF 5% 500V
C253	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C254	1-107-211-00	s	MICA 24PF 5% 500V
C266	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C269	1-107-019-00	s	MICA 1PF 500V
C270	1-131-353-00	s	TANTALUM 10uF 10% 35V
C271	1-131-353-00	s	TANTALUM 10uF 10% 35V
C280	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C283	1-107-019-00	s	MICA 1PF 500V
C284	1-131-353-00	s	TANTALUM 10uF 10% 35V
C285	1-131-353-00	s	TANTALUM 10uF 10% 35V
C287	1-131-353-00	s	TANTALUM 10uF 10% 35V
C288	1-131-353-00	s	TANTALUM 10uF 10% 35V
C296	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C299	1-131-353-00	s	TANTALUM 10uF 10% 35V
C300	1-131-353-00	s	TANTALUM 10uF 10% 35V
C301	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C302	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C303	1-107-210-00	s	MICA 22PF 5% 500V
C304	1-131-353-00	s	TANTALUM 10uF 10% 35V
C305	1-131-353-00	s	TANTALUM 10uF 10% 35V
C306	1-131-353-00	s	TANTALUM 10uF 10% 35V
C307	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C308	1-131-353-00	s	TANTALUM 10uF 10% 35V
C313	1-131-353-00	s	TANTALUM 10uF 10% 35V
C314	1-131-353-00	s	TANTALUM 10uF 10% 35V
C315	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C320	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C331	1-107-019-00	s	MICA 1PF 500V
C336	1-107-208-00	s	MICA 18PF 5% 500V
C340	1-131-353-00	s	TANTALUM 10uF 10% 35V
C341	1-131-353-00	s	TANTALUM 10uF 10% 35V
C342	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C343	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C344	1-131-353-00	s	TANTALUM 10uF 10% 35V
C345	1-131-353-00	s	TANTALUM 10uF 10% 35V
C346	1-131-353-00	s	TANTALUM 10uF 10% 35V
C347	1-107-210-00	s	MICA 22PF 5% 500V
C348	1-131-353-00	s	TANTALUM 10uF 10% 35V
C356	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C362	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C366	1-107-208-00	s	MICA 18PF 5% 500V

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Ref. No. or Q'ty	Part No.	SP	Description
C370	1-131-353-00	s	TANTALUM 10uF 10% 35V
C371	1-131-353-00	s	TANTALUM 10uF 10% 35V
C372	1-131-353-00	s	TANTALUM 10uF 10% 35V
C373	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C381	1-124-589-11	s	ELECT 47uF 20% 16V
C385	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C387	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C389	1-163-100-00	s	CERAMIC, CHIP 20PF 5% 50V
C393	1-131-353-00	s	TANTALUM 10uF 10% 35V
C394	1-131-353-00	s	TANTALUM 10uF 10% 35V
C398	1-124-589-11	s	ELECT 47uF 20% 16V
C400	1-124-584-00	s	ELECT 100uF 20% 10V
C403	1-131-353-00	s	TANTALUM 10uF 10% 35V
C404	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C409	1-107-202-00	s	MICA 10PF 5% 500V
C410	1-107-202-00	s	MICA 10PF 5% 500V
C420	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
CN1	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN2	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN3	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CV1	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV2	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV3	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV4	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV6	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV7	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV8	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV9	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV10	1-141-291-11	s	CAP, CERAMIC TRIMMER
CV12	1-141-291-11	s	CAP, CERAMIC TRIMMER
D1	8-719-100-03	s	DIODE 1S2835
D2	8-719-100-03	s	DIODE 1S2835
D4	8-719-800-76	s	DIODE 1SS226
D6	8-719-800-76	s	DIODE 1SS226
D7	8-719-911-19	s	DIODE 1SS119
D8	8-719-911-19	s	DIODE 1SS119
DL6	1-415-578-11	s	DELAY LINE
DL7	1-415-578-11	s	DELAY LINE
DL8	1-415-578-11	s	DELAY LINE
DL9	1-415-578-11	s	DELAY LINE
IC9	8-759-207-31	s	IC TC74HC4028F
IC10	8-759-207-31	s	IC TC74HC4028F
IC11	8-759-207-31	s	IC TC74HC4028F
IC12	8-759-207-31	s	IC TC74HC4028F
IC13	8-759-207-31	s	IC TC74HC4028F
IC14	8-759-207-31	s	IC TC74HC4028F
IC15	8-759-204-94	s	IC TC74HC00F
IC18	8-759-702-07	s	IC NJM13700M
IC21	8-759-926-18	s	IC SN74HC157NS
IC28	8-759-926-18	s	IC SN74HC157NS
IC30	8-759-209-20	s	IC TC4584BF
IC31	8-759-003-17	s	IC LM317T
IC33	8-759-702-07	s	IC NJM13700M
IC36	8-759-926-18	s	IC SN74HC157NS
IC41	8-759-702-07	s	IC NJM13700M
IC44	8-759-926-18	s	IC SN74HC157NS
IC46	8-759-209-20	s	IC TC4584BF

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
IC47	8-759-702-07	s	IC NJM13700M
IC48	8-759-009-06	s	IC MC14052BF
IC49	8-759-141-61	s	IC UPA103G
IC50	8-759-141-60	s	IC UPA101G
IC51	8-759-009-06	s	IC MC14052BF
IC52	8-759-141-61	s	IC UPA103G
IC53	8-759-141-60	s	IC UPA101G
IC54	8-759-702-07	s	IC NJM13700M
IC55	8-759-009-07	s	IC MC14053BF
IC56	8-741-100-43	s	IC SBX1595-01
IC57	8-759-702-07	s	IC NJM13700M
IC58	8-759-971-95	s	IC LM317LZ
IC59	8-759-141-61	s	IC UPA103G
IC60	8-759-141-60	s	IC UPA101G
IC61	8-759-908-17	s	IC TL082CPS
IC62	8-759-141-61	s	IC UPA103G
IC63	8-759-141-60	s	IC UPA101G
IC64	8-759-141-61	s	IC UPA103G
IC65	8-741-100-43	s	IC SBX1595-01
IC66	8-759-141-61	s	IC UPA103G
IC67	8-759-141-60	s	IC UPA101G
IC68	8-759-702-07	s	IC NJM13700M
IC69	8-759-971-95	s	IC LM317LZ
IC70	8-759-702-07	s	IC NJM13700M
IC71	8-759-204-94	s	IC TC74HC00F
IC72	8-759-204-94	s	IC TC74HC00F
IC73	8-759-982-31	s	IC RC78M05FA
IC74	8-759-009-07	s	IC MC14053BF
IC75	8-759-009-07	s	IC MC14053BF
IC76	8-759-009-07	s	IC MC14053BF
IC77	8-759-982-22	s	IC RC78L06A
IC78	8-759-982-45	s	IC RC79L06A
JR1	1-216-295-00	s	METAL, CHIP 0-OHM
JR2	1-216-295-00	s	METAL, CHIP 0-OHM
JR3	1-216-295-00	s	METAL, CHIP 0-OHM
JR4	1-216-295-00	s	METAL, CHIP 0-OHM
JR5	1-216-295-00	s	METAL, CHIP 0-OHM
JR6	1-216-295-00	s	METAL, CHIP 0-OHM
JR7	1-216-295-00	s	METAL, CHIP 0-OHM
JR8	1-216-295-00	s	METAL, CHIP 0-OHM
L1	1-410-718-31	s	INDUCTOR, CHIP 120uH
L3	1-410-718-31	s	INDUCTOR, CHIP 120uH
L5	1-410-718-31	s	INDUCTOR, CHIP 120uH
L7	1-410-718-31	s	INDUCTOR, CHIP 120uH
L9	1-410-718-31	s	INDUCTOR, CHIP 120uH
L10	1-410-718-31	s	INDUCTOR, CHIP 120uH
L11	1-410-718-31	s	INDUCTOR, CHIP 120uH
L12	1-410-718-31	s	INDUCTOR, CHIP 120uH
L13	1-410-718-31	s	INDUCTOR, CHIP 120uH
L15	1-410-718-31	s	INDUCTOR, CHIP 120uH
L16	1-410-718-31	s	INDUCTOR, CHIP 120uH
L17	1-410-718-31	s	INDUCTOR, CHIP 120uH
L19	1-410-718-31	s	INDUCTOR, CHIP 120uH
L20	1-410-718-31	s	INDUCTOR, CHIP 120uH
L22	1-410-718-31	s	INDUCTOR, CHIP 120uH
Q1	8-729-175-73	s	TRANSISTOR 2SC2757
Q2	8-729-112-65	s	TRANSISTOR 2SA1462
Q3	8-729-175-73	s	TRANSISTOR 2SC2757

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Ref. No. or Q'ty	Part No.	SP	Description
Q4	8-729-112-65	s	TRANSISTOR 2SA1462
Q5	8-729-175-73	s	TRANSISTOR 2SC2757
Q6	8-729-112-65	s	TRANSISTOR 2SA1462
Q7	8-729-175-73	s	TRANSISTOR 2SC2757
Q8	8-729-112-65	s	TRANSISTOR 2SA1462
Q9	8-729-175-73	s	TRANSISTOR 2SC2757
Q10	8-729-112-65	s	TRANSISTOR 2SA1462
Q11	8-729-175-73	s	TRANSISTOR 2SC2757
Q12	8-729-112-65	s	TRANSISTOR 2SA1462
Q13	8-729-175-73	s	TRANSISTOR 2SC2757
Q14	8-729-112-65	s	TRANSISTOR 2SA1462
Q15	8-729-175-73	s	TRANSISTOR 2SC2757
Q16	8-729-112-65	s	TRANSISTOR 2SA1462
Q17	8-729-175-73	s	TRANSISTOR 2SC2757
Q18	8-729-112-65	s	TRANSISTOR 2SA1462
Q19	8-729-175-73	s	TRANSISTOR 2SC2757
Q20	8-729-112-65	s	TRANSISTOR 2SA1462
Q21	8-729-112-65	s	TRANSISTOR 2SA1462
Q22	8-729-175-73	s	TRANSISTOR 2SC2757
Q23	8-729-112-65	s	TRANSISTOR 2SA1462
Q24	8-729-175-73	s	TRANSISTOR 2SC2757
Q25	8-729-175-73	s	TRANSISTOR 2SC2757
Q26	8-729-112-65	s	TRANSISTOR 2SA1462
Q27	8-729-112-65	s	TRANSISTOR 2SA1462
Q28	8-729-175-73	s	TRANSISTOR 2SC2757
Q29	8-729-112-65	s	TRANSISTOR 2SA1462
Q30	8-729-112-65	s	TRANSISTOR 2SA1462
Q31	8-729-112-65	s	TRANSISTOR 2SA1462
Q32	8-729-175-73	s	TRANSISTOR 2SC2757
Q33	8-729-175-73	s	TRANSISTOR 2SC2757
Q34	8-729-175-73	s	TRANSISTOR 2SC2757
Q35	8-729-175-73	s	TRANSISTOR 2SC2757
Q36	8-729-175-73	s	TRANSISTOR 2SC2757
Q37	8-729-100-66	s	TRANSISTOR 2SC1623
Q38	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q39	8-729-112-65	s	TRANSISTOR 2SA1462
Q42	8-729-216-22	s	TRANSISTOR 2SA1162
Q44	8-729-175-73	s	TRANSISTOR 2SC2757
Q45	8-729-112-65	s	TRANSISTOR 2SA1462
Q46	8-729-112-65	s	TRANSISTOR 2SA1462
Q47	8-729-175-73	s	TRANSISTOR 2SC2757
Q48	8-729-112-65	s	TRANSISTOR 2SA1462
Q49	8-729-112-65	s	TRANSISTOR 2SA1462
Q50	8-729-112-65	s	TRANSISTOR 2SA1462
Q51	8-729-175-73	s	TRANSISTOR 2SC2757
Q52	8-729-175-73	s	TRANSISTOR 2SC2757
Q53	8-729-175-73	s	TRANSISTOR 2SC2757
Q54	8-729-175-73	s	TRANSISTOR 2SC2757
Q55	8-729-175-73	s	TRANSISTOR 2SC2757
Q56	8-729-100-66	s	TRANSISTOR 2SC1623
Q57	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q58	8-729-112-65	s	TRANSISTOR 2SA1462
Q61	8-729-216-22	s	TRANSISTOR 2SA1162
Q63	8-729-175-73	s	TRANSISTOR 2SC2757
Q64	8-729-112-65	s	TRANSISTOR 2SA1462
Q65	8-729-112-65	s	TRANSISTOR 2SA1462
Q66	8-729-175-73	s	TRANSISTOR 2SC2757
Q67	8-729-112-65	s	TRANSISTOR 2SA1462
Q68	8-729-112-65	s	TRANSISTOR 2SA1462

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
Q69	8-729-175-73	s	TRANSISTOR 2SC2757
Q70	8-729-175-73	s	TRANSISTOR 2SC2757
Q71	8-729-112-65	s	TRANSISTOR 2SA1462
Q72	8-729-112-65	s	TRANSISTOR 2SA1462
Q73	8-729-175-73	s	TRANSISTOR 2SC2757
Q74	8-729-112-65	s	TRANSISTOR 2SA1462
Q75	8-729-112-65	s	TRANSISTOR 2SA1462
Q76	8-729-175-73	s	TRANSISTOR 2SC2757
Q77	8-729-112-65	s	TRANSISTOR 2SA1462
Q78	8-729-112-65	s	TRANSISTOR 2SA1462
Q79	8-729-112-65	s	TRANSISTOR 2SA1462
Q80	8-729-175-73	s	TRANSISTOR 2SC2757
Q81	8-729-175-73	s	TRANSISTOR 2SC2757
Q82	8-729-175-73	s	TRANSISTOR 2SC2757
Q83	8-729-175-73	s	TRANSISTOR 2SC2757
Q84	8-729-175-73	s	TRANSISTOR 2SC2757
Q85	8-729-100-66	s	TRANSISTOR 2SC1623
Q86	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q87	8-729-112-65	s	TRANSISTOR 2SA1462
Q90	8-729-216-22	s	TRANSISTOR 2SA1162
Q92	8-729-175-73	s	TRANSISTOR 2SC2757
Q93	8-729-112-65	s	TRANSISTOR 2SA1462
Q94	8-729-112-65	s	TRANSISTOR 2SA1462
Q95	8-729-175-73	s	TRANSISTOR 2SC2757
Q96	8-729-112-65	s	TRANSISTOR 2SA1462
Q97	8-729-112-65	s	TRANSISTOR 2SA1462
Q98	8-729-175-73	s	TRANSISTOR 2SC2757
Q99	8-729-175-73	s	TRANSISTOR 2SC2757
Q100	8-729-112-65	s	TRANSISTOR 2SA1462
Q101	8-729-112-65	s	TRANSISTOR 2SA1462
Q102	8-729-175-73	s	TRANSISTOR 2SC2757
Q103	8-729-112-65	s	TRANSISTOR 2SA1462
Q104	8-729-112-65	s	TRANSISTOR 2SA1462
Q105	8-729-175-73	s	TRANSISTOR 2SC2757
Q106	8-729-112-65	s	TRANSISTOR 2SA1462
Q107	8-729-112-65	s	TRANSISTOR 2SA1462
Q108	8-729-112-65	s	TRANSISTOR 2SA1462
Q109	8-729-175-73	s	TRANSISTOR 2SC2757
Q110	8-729-175-73	s	TRANSISTOR 2SC2757
Q111	8-729-175-73	s	TRANSISTOR 2SC2757
Q112	8-729-175-73	s	TRANSISTOR 2SC2757
Q113	8-729-175-73	s	TRANSISTOR 2SC2757
Q114	8-729-100-66	s	TRANSISTOR 2SC1623
Q115	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q116	8-729-112-65	s	TRANSISTOR 2SA1462
Q119	8-729-216-22	s	TRANSISTOR 2SA1162
Q121	8-729-175-73	s	TRANSISTOR 2SC2757
Q122	8-729-175-73	s	TRANSISTOR 2SC2757
Q123	8-729-175-73	s	TRANSISTOR 2SC2757
Q124	8-729-175-73	s	TRANSISTOR 2SC2757
Q125	8-729-175-73	s	TRANSISTOR 2SC2757
Q126	8-729-100-66	s	TRANSISTOR 2SC1623
Q127	8-729-216-22	s	TRANSISTOR 2SA1162
Q128	8-729-100-66	s	TRANSISTOR 2SC1623
Q129	8-729-216-22	s	TRANSISTOR 2SA1162
Q130	8-729-175-73	s	TRANSISTOR 2SC2757
Q131	8-729-100-66	s	TRANSISTOR 2SC1623
Q132	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q133	8-729-216-22	s	TRANSISTOR 2SA1162

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Ref. No. or Q'ty	Part No.	SP	Description
Q134	8-729-175-73	s	TRANSISTOR 2SC2757
Q135	8-729-100-66	s	TRANSISTOR 2SC1623
Q136	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q137	8-729-216-22	s	TRANSISTOR 2SA1162
Q138	8-729-175-73	s	TRANSISTOR 2SC2757
Q139	8-729-175-73	s	TRANSISTOR 2SC2757
Q140	8-729-175-73	s	TRANSISTOR 2SC2757
Q141	8-729-175-73	s	TRANSISTOR 2SC2757
Q142	8-729-112-65	s	TRANSISTOR 2SA1462
Q143	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q144	8-729-175-73	s	TRANSISTOR 2SC2757
Q145	8-729-112-65	s	TRANSISTOR 2SA1462
Q146	8-729-175-73	s	TRANSISTOR 2SC2757
Q147	8-729-175-73	s	TRANSISTOR 2SC2757
Q148	8-729-175-73	s	TRANSISTOR 2SC2757
Q149	8-729-175-73	s	TRANSISTOR 2SC2757
Q150	8-729-112-65	s	TRANSISTOR 2SA1462
Q151	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q152	8-729-175-73	s	TRANSISTOR 2SC2757
Q153	8-729-112-65	s	TRANSISTOR 2SA1462
Q154	8-729-100-66	s	TRANSISTOR 2SC1623
Q155	8-729-216-22	s	TRANSISTOR 2SA1162
Q156	8-729-100-66	s	TRANSISTOR 2SC1623
Q157	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q158	8-729-112-65	s	TRANSISTOR 2SA1462
Q159	8-729-112-65	s	TRANSISTOR 2SA1462
Q160	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q161	8-729-100-66	s	TRANSISTOR 2SC1623
Q162	8-729-175-73	s	TRANSISTOR 2SC2757
Q163	8-729-175-73	s	TRANSISTOR 2SC2757
Q164	8-729-175-73	s	TRANSISTOR 2SC2757
Q165	8-729-175-73	s	TRANSISTOR 2SC2757
Q168	8-729-175-73	s	TRANSISTOR 2SC2757
Q169	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q170	8-729-175-73	s	TRANSISTOR 2SC2757
Q171	8-729-175-73	s	TRANSISTOR 2SC2757
Q172	8-729-112-65	s	TRANSISTOR 2SA1462
Q173	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q174	8-729-112-65	s	TRANSISTOR 2SA1462
Q175	8-729-112-65	s	TRANSISTOR 2SA1462
Q176	8-729-175-73	s	TRANSISTOR 2SC2757
Q177	8-729-175-73	s	TRANSISTOR 2SC2757
Q178	8-729-112-65	s	TRANSISTOR 2SA1462
Q179	8-729-100-66	s	TRANSISTOR 2SC1623
Q180	8-729-112-65	s	TRANSISTOR 2SA1462
Q181	8-729-112-65	s	TRANSISTOR 2SA1462
Q182	8-729-175-73	s	TRANSISTOR 2SC2757
Q183	8-729-175-73	s	TRANSISTOR 2SC2757
Q184	8-729-175-73	s	TRANSISTOR 2SC2757
Q185	8-729-100-66	s	TRANSISTOR 2SC1623
Q186	8-729-100-66	s	TRANSISTOR 2SC1623
Q187	8-729-100-66	s	TRANSISTOR 2SC1623
Q189	8-729-216-22	s	TRANSISTOR 2SA1162
Q190	8-729-216-22	s	TRANSISTOR 2SA1162
Q191	8-729-216-22	s	TRANSISTOR 2SA1162
Q193	8-729-175-73	s	TRANSISTOR 2SC2757
Q194	8-729-175-73	s	TRANSISTOR 2SC2757
Q195	8-729-112-65	s	TRANSISTOR 2SA1462
Q196	8-729-116-64	s	TRANSISTOR 2SK508-K51

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
Q197	8-729-175-73	s	TRANSISTOR 2SC2757
Q198	8-729-112-65	s	TRANSISTOR 2SA1462
Q199	8-729-175-73	s	TRANSISTOR 2SC2757
Q200	8-729-112-65	s	TRANSISTOR 2SA1462
Q201	8-729-112-65	s	TRANSISTOR 2SA1462
Q202	8-729-175-73	s	TRANSISTOR 2SC2757
Q203	8-729-112-65	s	TRANSISTOR 2SA1462
Q204	8-729-112-65	s	TRANSISTOR 2SA1462
Q205	8-729-112-65	s	TRANSISTOR 2SA1462
Q206	8-729-112-65	s	TRANSISTOR 2SA1462
Q207	8-729-175-73	s	TRANSISTOR 2SC2757
Q208	8-729-175-73	s	TRANSISTOR 2SC2757
Q209	8-729-175-73	s	TRANSISTOR 2SC2757
Q210	8-729-175-73	s	TRANSISTOR 2SC2757
Q211	8-729-100-66	s	TRANSISTOR 2SC1623
Q212	8-729-100-66	s	TRANSISTOR 2SC1623
Q213	8-729-216-22	s	TRANSISTOR 2SA1162
Q214	8-729-216-22	s	TRANSISTOR 2SA1162
Q215	8-729-216-22	s	TRANSISTOR 2SA1162
Q216	8-729-216-22	s	TRANSISTOR 2SA1162
Q217	8-729-100-66	s	TRANSISTOR 2SC1623
Q218	8-729-216-22	s	TRANSISTOR 2SA1162
Q219	8-729-216-22	s	TRANSISTOR 2SA1162
Q220	8-729-100-66	s	TRANSISTOR 2SC1623
Q221	8-729-216-22	s	TRANSISTOR 2SA1162
Q222	8-729-216-22	s	TRANSISTOR 2SA1162
Q223	8-729-100-66	s	TRANSISTOR 2SC1623
Q224	8-729-216-22	s	TRANSISTOR 2SA1162
Q225	8-729-216-22	s	TRANSISTOR 2SA1162
Q226	8-729-100-66	s	TRANSISTOR 2SC1623
Q227	8-729-216-22	s	TRANSISTOR 2SA1162
Q228	8-729-216-22	s	TRANSISTOR 2SA1162
Q229	8-729-175-73	s	TRANSISTOR 2SC2757
Q230	8-729-100-66	s	TRANSISTOR 2SC1623
Q231	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q232	8-729-216-22	s	TRANSISTOR 2SA1162
Q234	8-729-112-65	s	TRANSISTOR 2SA1462
Q235	8-729-175-73	s	TRANSISTOR 2SC2757
Q237	8-729-175-73	s	TRANSISTOR 2SC2757
Q238	8-729-175-73	s	TRANSISTOR 2SC2757
Q240	8-729-112-65	s	TRANSISTOR 2SA1462
Q241	8-729-112-65	s	TRANSISTOR 2SA1462
Q242	8-729-175-73	s	TRANSISTOR 2SC2757
Q243	8-729-175-73	s	TRANSISTOR 2SC2757
Q244	8-729-175-73	s	TRANSISTOR 2SC2757
Q245	8-729-175-73	s	TRANSISTOR 2SC2757
Q246	8-729-175-73	s	TRANSISTOR 2SC2757
Q247	8-729-175-73	s	TRANSISTOR 2SC2757
Q248	8-729-175-73	s	TRANSISTOR 2SC2757
Q249	8-729-175-73	s	TRANSISTOR 2SC2757
Q250	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q251	8-729-112-65	s	TRANSISTOR 2SA1462
R362	1-216-309-00	s	METAL 5.6 5% 1/10W
R363	1-216-309-00	s	METAL 5.6 5% 1/10W
R364	1-215-394-00	s	METAL 75 1% 1/6W
R608	1-216-309-00	s	METAL 5.6 5% 1/10W
R609	1-216-309-00	s	METAL 5.6 5% 1/10W
R610	1-216-309-00	s	METAL 5.6 5% 1/10W

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
R611	1-216-309-00	s	METAL 5.6 5% 1/10W
R612	1-215-394-00	s	METAL 75 1% 1/6W
R613	1-215-394-00	s	METAL 75 1% 1/6W
R614	1-215-394-00	s	METAL 75 1% 1/6W
R680	1-216-309-00	s	METAL 5.6 5% 1/10W
R681	1-216-309-00	s	METAL 5.6 5% 1/10W
R682	1-215-394-00	s	METAL 75 1% 1/6W
R780	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R781	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R900	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R902	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R904	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R906	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R908	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R910	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R912	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R914	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R962	1-249-418-11	s	CARBON 1.2K 5% 1/4W
R963	1-249-418-11	s	CARBON 1.2K 5% 1/4W
RV1	1-237-032-11	s	RES, ADJ, METAL 500
RV2	1-237-032-11	s	RES, ADJ, METAL 500
RV3	1-237-036-11	s	RES, ADJ, METAL 10K
RV5	1-237-037-11	s	RES, ADJ, METAL 20K
RV6	1-237-032-11	s	RES, ADJ, METAL 500
RV7	1-237-032-11	s	RES, ADJ, METAL 500
RV8	1-237-036-11	s	RES, ADJ, METAL 10K
RV10	1-237-037-11	s	RES, ADJ, METAL 20K
RV11	1-237-032-11	s	RES, ADJ, METAL 500
RV12	1-237-032-11	s	RES, ADJ, METAL 500
RV15	1-237-037-11	s	RES, ADJ, METAL 20K
RV16	1-237-032-11	s	RES, ADJ, METAL 500
RV17	1-237-032-11	s	RES, ADJ, METAL 500
RV20	1-237-037-11	s	RES, ADJ, METAL 20K
RV21	1-237-032-11	s	RES, ADJ, METAL 500
RV23	1-237-032-11	s	RES, ADJ, METAL 500
RV24	1-237-037-11	s	RES, ADJ, METAL 20K
RV25	1-237-032-11	s	RES, ADJ, METAL 500
RV26	1-237-037-11	s	RES, ADJ, METAL 20K
RV27	1-237-031-11	s	RES, ADJ, METAL 200
RV28	1-237-035-11	s	RES, ADJ, METAL 5K
RV30	1-237-034-11	s	RES, ADJ, METAL 2K
RV31	1-237-033-11	s	RES, ADJ, METAL 1K
RV32	1-237-036-11	s	RES, ADJ, METAL 10K
RV33	1-237-031-11	s	RES, ADJ, METAL 200
RV34	1-237-035-11	s	RES, ADJ, METAL 5K
RV36	1-237-034-11	s	RES, ADJ, METAL 2K
RV37	1-237-033-11	s	RES, ADJ, METAL 1K
RV38	1-237-036-11	s	RES, ADJ, METAL 10K
RV39	1-237-032-11	s	RES, ADJ, METAL 500
RV40	1-237-032-11	s	RES, ADJ, METAL 500
RV42	1-237-032-11	s	RES, ADJ, METAL 500
RV43	1-237-032-11	s	RES, ADJ, METAL 500
RV44	1-237-030-11	s	RES, ADJ, CERMET 100
RV45	1-237-034-11	s	RES, ADJ, METAL 2K
RV46	1-237-035-11	s	RES, ADJ, METAL 5K
RV47	1-237-035-11	s	RES, ADJ, METAL 5K
RV48	1-237-034-11	s	RES, ADJ, METAL 2K
RV49	1-237-033-11	s	RES, ADJ, METAL 1K
RV50	1-237-034-11	s	RES, ADJ, METAL 2K

(EF-20C BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RV51	1-237-033-11	s	RES, ADJ, METAL 1K
RV52	1-237-033-11	s	RES, ADJ, METAL 1K
RV53	1-237-033-11	s	RES, ADJ, METAL 1K
RV54	1-237-498-21	s	RES, ADJ, CERMET 200
RV55	1-237-032-11	s	RES, ADJ, METAL 500
RV56	1-237-035-11	s	RES, ADJ, METAL 5K
RV57	1-237-034-11	s	RES, ADJ, METAL 2K
RV58	1-237-033-11	s	RES, ADJ, METAL 1K
RV59	1-237-033-11	s	RES, ADJ, METAL 1K
RV60	1-237-498-21	s	RES, ADJ, CERMET 200
RV61	1-237-029-11	s	RES, ADJ, METAL 50
RV62	1-237-032-11	s	RES, ADJ, METAL 500
RV64	1-237-030-11	s	RES, ADJ, CERMET 100
RV65	1-237-037-11	s	RES, ADJ, METAL 20K
RV66	1-237-037-11	s	RES, ADJ, METAL 20K
RV67	1-237-037-11	s	RES, ADJ, METAL 20K
RV68	1-237-037-11	s	RES, ADJ, METAL 20K
RV69	1-237-037-11	s	RES, ADJ, METAL 20K
RV70	1-237-037-11	s	RES, ADJ, METAL 20K
RV71	1-237-030-11	s	RES, ADJ, CERMET 100

DUS-312 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-632-548-11	o	PRINTED CIRCUIT BOARD, DUS-312
2pcs	3-659-757-00	s	SPACER (4X8.5)
2pcs	7-682-952-01	s	SCREW +PSW 3X16
2pcs	7-684-023-04	s	N 3, TYPE 2
IC1081	8-759-990-82	s	IC TL082CP
R1001	1-215-433-00	s	METAL 3.3K 1% 1/6W
R1002	1-215-445-00	s	METAL 10K 1% 1/6W
R1003	1-215-469-00	s	METAL 100K 1% 1/6W
S1001	1-554-295-00	s	SWITCH, SLIDE
VR1081	1-237-503-21	s	RES, ADJ, METAL 10K

SD-19 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-252-A	o	MOUNTED CIRCUIT BOARD, SD-19 (P)
18pcs	1-563-521-11	o	CONNECTOR, 20P, FEMALE
1pc	2-139-140-01	o	PLATE, SHIELD
2pcs	2-182-909-01	o	LEVER, PC BOARD
4pcs	3-621-124-00	o	SPACER
2pcs	7-626-320-11	o	PIN, SPRING 3X8
1pc	7-682-947-01	s	SCREW +PSW 3X6
6pcs	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
C1	1-131-353-00	s	TANTALUM 10uF 10% 35V
C2	1-131-353-00	s	TANTALUM 10uF 10% 35V
C3	1-131-353-00	s	TANTALUM 10uF 10% 35V
C4	1-131-353-00	s	TANTALUM 10uF 10% 35V
C6	1-124-589-11	s	ELECT 47uF 20% 16V
C9	1-124-589-11	s	ELECT 47uF 20% 16V
C12	1-107-210-00	s	MICA 22PF 5% 500V
C17	1-107-085-00	s	MICA 100PF 5% 50V
C20	1-107-085-00	s	MICA 100PF 5% 50V
C22	1-131-353-00	s	TANTALUM 10uF 10% 35V
C23	1-126-160-11	s	ELECT 1uF 20% 50V
C24	1-131-353-00	s	TANTALUM 10uF 10% 35V
C26	1-124-589-11	s	ELECT 47uF 20% 16V
C27	1-109-539-00	s	MICA 150PF 5% 100V
C29	1-124-589-11	s	ELECT 47uF 20% 16V
C30	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C31	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C32	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C33	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C34	1-124-589-11	s	ELECT 47uF 20% 16V
C37	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C38	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C42	1-131-353-00	s	TANTALUM 10uF 10% 35V
C43	1-131-353-00	s	TANTALUM 10uF 10% 35V
C48	1-107-075-00	s	MICA 39PF 5% 50V
C49	1-107-049-00	s	MICA 8.2PF 500V
C53	1-107-085-00	s	MICA 100PF 5% 50V
C54	1-107-085-00	s	MICA 100PF 5% 50V
C65	1-131-353-00	s	TANTALUM 10uF 10% 35V
C68	1-131-353-00	s	TANTALUM 10uF 10% 35V
C71	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C77	1-124-589-11	s	ELECT 47uF 20% 16V
C80	1-124-589-11	s	ELECT 47uF 20% 16V
C82	1-124-589-11	s	ELECT 47uF 20% 16V
C85	1-124-589-11	s	ELECT 47uF 20% 16V
C87	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C88	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C89	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C90	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C92	1-124-589-11	s	ELECT 47uF 20% 16V
C93	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C95	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C101	1-131-353-00	s	TANTALUM 10uF 10% 35V
C102	1-131-353-00	s	TANTALUM 10uF 10% 35V
C106	1-126-157-11	s	ELECT 10uF 20% 16V
C107	1-131-353-00	s	TANTALUM 10uF 10% 35V
C108	1-131-353-00	s	TANTALUM 10uF 10% 35V
C109	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C118	1-107-085-00	s	MICA 100PF 5% 50V
C122	1-131-353-00	s	TANTALUM 10uF 10% 35V

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(SD-19 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C123	1-131-353-00	s	TANTALUM 10uF 10% 35V
C125	1-107-085-00	s	MICA 100PF 5% 50V
C128	1-131-353-00	s	TANTALUM 10uF 10% 35V
C129	1-131-353-00	s	TANTALUM 10uF 10% 35V
C138	1-107-209-00	s	MICA 20PF 5% 500V
C141	1-107-207-00	s	MICA 16PF 5% 500V
C142	1-107-207-00	s	MICA 16PF 5% 500V
C143	1-131-353-00	s	TANTALUM 10uF 10% 35V
C145	1-107-085-00	s	MICA 100PF 5% 50V
C151	1-131-353-00	s	TANTALUM 10uF 10% 35V
C153	1-131-353-00	s	TANTALUM 10uF 10% 35V
C160	1-124-589-11	s	ELECT 47uF 20% 16V
C163	1-124-589-11	s	ELECT 47uF 20% 16V
C165	1-124-589-11	s	ELECT 47uF 20% 16V
C168	1-124-589-11	s	ELECT 47uF 20% 16V
C170	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C171	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C172	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C173	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C174	1-124-589-11	s	ELECT 47uF 20% 16V
C177	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C179	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C184	1-131-353-00	s	TANTALUM 10uF 10% 35V
C185	1-131-353-00	s	TANTALUM 10uF 10% 35V
C189	1-126-157-11	s	ELECT 10uF 20% 16V
C190	1-131-353-00	s	TANTALUM 10uF 10% 35V
C191	1-131-353-00	s	TANTALUM 10uF 10% 35V
C210	1-131-353-00	s	TANTALUM 10uF 10% 35V
C217	1-124-589-11	s	ELECT 47uF 20% 16V
C220	1-124-589-11	s	ELECT 47uF 20% 16V
C222	1-124-589-11	s	ELECT 47uF 20% 16V
C225	1-124-589-11	s	ELECT 47uF 20% 16V
C227	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C228	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C231	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C232	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C234	1-124-589-11	s	ELECT 47uF 20% 16V
C236	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C238	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C243	1-131-353-00	s	TANTALUM 10uF 10% 35V
C244	1-131-353-00	s	TANTALUM 10uF 10% 35V
C248	1-126-157-11	s	ELECT 10uF 20% 16V
C249	1-131-353-00	s	TANTALUM 10uF 10% 35V
C250	1-131-353-00	s	TANTALUM 10uF 10% 35V
C260	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C264	1-124-589-11	s	ELECT 47uF 20% 16V
C267	1-124-589-11	s	ELECT 47uF 20% 16V
C268	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C274	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C281	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C285	1-124-589-11	s	ELECT 47uF 20% 16V
C287	1-124-589-11	s	ELECT 47uF 20% 16V
C288	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C293	1-124-589-11	s	ELECT 47uF 20% 16V
C295	1-124-589-11	s	ELECT 47uF 20% 16V
C297	1-124-589-11	s	ELECT 47uF 20% 16V
C314	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C323	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C325	1-162-638-11	s	CERAMIC, CHIP 1uF 16V

(SD-19 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C332	1-124-589-11	s	ELECT 47uF 20% 16V
C334	1-124-589-11	s	ELECT 47uF 20% 16V
C337	1-124-589-11	s	ELECT 47uF 20% 16V
C338	1-124-589-11	s	ELECT 47uF 20% 16V
C341	1-124-589-11	s	ELECT 47uF 20% 16V
C358	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C367	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C368	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C380	1-124-589-11	s	ELECT 47uF 20% 16V
C382	1-124-589-11	s	ELECT 47uF 20% 16V
C384	1-124-589-11	s	ELECT 47uF 20% 16V
C386	1-124-589-11	s	ELECT 47uF 20% 16V
C397	1-124-589-11	s	ELECT 47uF 20% 16V
C398	1-124-589-11	s	ELECT 47uF 20% 16V
C399	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C401	1-124-589-11	s	ELECT 47uF 20% 16V
C403	1-124-589-11	s	ELECT 47uF 20% 16V
C446	1-107-085-00	s	MICA 100PF 5% 50V
C447	1-107-090-00	s	MICA 160PF 5% 50V
C448	1-107-090-00	s	MICA 160PF 5% 50V
C450	1-124-234-00	s	ELECT 22uF 20% 16V
C483	1-124-589-11	s	ELECT 47uF 20% 16V
C497	1-124-589-11	s	ELECT 47uF 20% 16V
C512	1-126-157-11	s	ELECT 10uF 20% 16V
C519	1-107-085-00	s	MICA 100PF 5% 50V
C521	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C522	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C527	1-107-085-00	s	MICA 100PF 5% 50V
C530	1-131-353-00	s	TANTALUM 10uF 10% 35V
C537	1-131-353-00	s	TANTALUM 10uF 10% 35V
C538	1-131-353-00	s	TANTALUM 10uF 10% 35V
C540	1-131-353-00	s	TANTALUM 10uF 10% 35V
C542	1-131-353-00	s	TANTALUM 10uF 10% 35V
C547	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C570	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C581	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C586	1-131-353-00	s	TANTALUM 10uF 10% 35V
C587	1-131-353-00	s	TANTALUM 10uF 10% 35V
C590	1-131-353-00	s	TANTALUM 10uF 10% 35V
C591	1-131-353-00	s	TANTALUM 10uF 10% 35V
C596	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C597	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C598	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C610	1-107-085-00	s	MICA 100PF 5% 50V
C627	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C640	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C644	1-107-157-00	s	MICA 27PF 5% 500V
C645	1-107-157-00	s	MICA 27PF 5% 500V
C646	1-107-157-00	s	MICA 27PF 5% 500V
C647	1-107-157-00	s	MICA 27PF 5% 500V
CN1	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN2	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN3	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
D1	8-719-100-03	s	DIODE 1S2835
D2	8-719-100-05	s	DIODE 1S2837
D3	8-719-800-76	s	DIODE 1SS226
D4	8-719-800-76	s	DIODE 1SS226
D5	8-719-800-76	s	DIODE 1SS226

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(SD-19 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D6	8-719-800-76	s	DIODE 1SS226
D7	8-719-109-93	s	DIODE RD6.2ES-B2
D8	8-719-109-93	s	DIODE RD6.2ES-B2
D9	8-719-800-76	s	DIODE 1SS226
D10	8-719-800-76	s	DIODE 1SS226
D11	8-719-800-76	s	DIODE 1SS226
D12	8-719-800-76	s	DIODE 1SS226
D13	8-719-800-76	s	DIODE 1SS226
D14	8-719-800-76	s	DIODE 1SS226
D15	8-719-800-76	s	DIODE 1SS226
D16	8-719-109-93	s	DIODE RD6.2ES-B2
D17	8-719-109-93	s	DIODE RD6.2ES-B2
D18	8-719-800-76	s	DIODE 1SS226
D20	8-719-109-93	s	DIODE RD6.2ES-B2
D21	8-719-109-93	s	DIODE RD6.2ES-B2
D22	8-719-800-76	s	DIODE 1SS226
D24	8-719-800-76	s	DIODE 1SS226
D25	8-719-102-51	s	DIODE 1SZ51
D26	8-719-800-76	s	DIODE 1SS226
D27	8-719-109-75	s	DIODE RD4.3ES-B2
D28	8-719-800-76	s	DIODE 1SS226
D30	8-719-800-76	s	DIODE 1SS226
FL1	1-235-786-11	s	FILTER, LOW PASS 3MHz
FL2	1-235-181-00	s	FILTER, BANDPASS 4.43MHz
FL3	1-235-181-00	s	FILTER, BANDPASS 4.43MHz
FL4	1-235-584-11	s	FILTER, LOW PASS
FL5	1-235-786-11	s	FILTER, LOW PASS 3MHz
FL6	1-235-584-11	s	FILTER, LOW PASS
FL7	1-235-786-11	s	FILTER, LOW PASS 3MHz
FL8	1-235-181-00	s	FILTER, BANDPASS 4.43MHz
FL9	1-235-584-11	s	FILTER, LOW PASS
FL11	1-235-181-00	s	FILTER, BANDPASS 4.43MHz
FL20	1-235-584-11	s	FILTER, LOW PASS
FL21	1-235-584-11	s	FILTER, LOW PASS
FL22	1-235-584-11	s	FILTER, LOW PASS
FL23	1-235-584-11	s	FILTER, LOW PASS
FL24	1-235-584-11	s	FILTER, LOW PASS
FL25	1-235-584-11	s	FILTER, LOW PASS
FL26	1-235-584-11	s	FILTER, LOW PASS
FL27	1-235-585-11	s	FILTER, LOW PASS
FL28	1-235-585-11	s	FILTER, LOW PASS
IC1	8-759-982-21	s	IC RC78L05A
IC2	8-759-982-52	s	IC RC79M05FA
IC3	8-759-114-06	s	IC UPC814G2-1
IC4	8-759-008-74	s	IC MC14001BF
IC5	8-759-200-79	s	IC TC4049BF
IC6	8-749-900-77	s	IC BX-1333L
IC7	8-759-906-59	s	IC CX22017
IC8	8-759-908-17	s	IC TL082CPS
IC9	8-759-200-79	s	IC TC4049BF
IC10	8-759-009-07	s	IC MC14053BF
IC11	8-759-908-17	s	IC TL082CPS
IC12	8-759-908-17	s	IC TL082CPS
IC13	8-759-908-17	s	IC TL082CPS
IC14	8-759-602-06	s	IC M5109P
IC15	8-759-602-06	s	IC M5109P
IC16	8-759-906-59	s	IC CX22017
IC17	8-759-702-07	s	IC NJM13700M

(SD-19 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC18	8-759-009-67	s	IC MC14584BF
IC19	8-759-009-07	s	IC MC14053BF
IC20	8-759-009-67	s	IC MC14584BF
IC21	8-759-908-17	s	IC TL082CPS
IC22	8-759-908-17	s	IC TL082CPS
IC23	8-759-908-17	s	IC TL082CPS
IC24	8-759-602-06	s	IC M5109P
IC25	8-759-602-06	s	IC M5109P
IC26	8-759-906-59	s	IC CX22017
IC27	8-759-009-07	s	IC MC14053BF
IC28	8-759-908-17	s	IC TL082CPS
IC29	8-759-908-17	s	IC TL082CPS
IC30	8-759-908-17	s	IC TL082CPS
IC31	8-759-602-06	s	IC M5109P
IC32	8-759-602-06	s	IC M5109P
IC33	8-759-906-59	s	IC CX22017
IC34	8-759-009-06	s	IC MC14052BF
IC35	8-759-702-07	s	IC NJM13700M
IC36	8-759-009-07	s	IC MC14053BF
IC37	8-759-009-06	s	IC MC14052BF
IC38	8-759-702-07	s	IC NJM13700M
IC39	8-759-908-17	s	IC TL082CPS
IC40	8-759-009-07	s	IC MC14053BF
IC41	8-741-100-42	s	IC SBX1594-01
IC42	8-759-908-17	s	IC TL082CPS
IC44	8-759-984-88	s	IC LM6361M
IC45	8-759-984-88	s	IC LM6361M
IC46	8-759-204-94	s	IC TC74HC00F
IC47	8-741-100-42	s	IC SBX1594-01
IC48	8-759-908-17	s	IC TL082CPS
IC50	8-759-984-88	s	IC LM6361M
IC51	8-759-984-88	s	IC LM6361M
IC52	8-759-908-17	s	IC TL082CPS
IC53	8-759-908-17	s	IC TL082CPS
IC55	8-759-908-17	s	IC TL082CPS
IC56	8-759-982-44	s	IC RC79L05A
IC57	8-759-003-17	s	IC LM317T
IC58	8-759-746-86	s	IC 27C128-25
IC59	8-759-746-86	s	IC 27C128-25
IC60	8-759-746-86	s	IC 27C128-25
IC61	8-759-984-88	s	IC LM6361M
IC62	8-759-984-88	s	IC LM6361M
IC63	8-759-011-64	s	IC MC74HC4052F
IC64	8-741-100-42	s	IC SBX1594-01
IC65	8-741-100-42	s	IC SBX1594-01
IC66	8-759-984-88	s	IC LM6361M
IC67	8-759-984-88	s	IC LM6361M
IC68	8-759-207-31	s	IC TC74HC4028F
IC69	8-759-207-31	s	IC TC74HC4028F
IC70	8-759-011-64	s	IC MC74HC4052F
IC71	8-759-011-64	s	IC MC74HC4052F
IC72	8-759-984-88	s	IC LM6361M
IC73	8-759-011-64	s	IC MC74HC4052F
IC74	8-741-100-42	s	IC SBX1594-01
IC75	8-759-984-88	s	IC LM6361M
IC76	8-759-011-65	s	IC MC74HC4053F
IC77	8-759-011-64	s	IC MC74HC4052F
IC78	8-741-100-42	s	IC SBX1594-01
IC79	8-759-984-88	s	IC LM6361M

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
IC80	8-759-011-64	s	IC MC74HC4052F
IC81	8-741-100-42	s	IC SBX1594-01
IC82	8-759-984-88	s	IC LM6361M
IC83	8-759-011-64	s	IC MC74HC4052F
IC84	8-741-100-42	s	IC SBX1594-01
IC85	8-759-200-79	s	IC TC4049BF
IC86	8-759-011-65	s	IC MC74HC4053F
IC87	8-759-984-88	s	IC LM6361M
IC88	8-759-011-65	s	IC MC74HC4053F
IC89	8-741-100-42	s	IC SBX1594-01
IC90	8-759-984-88	s	IC LM6361M
IC91	8-759-984-88	s	IC LM6361M
IC92	8-759-984-88	s	IC LM6361M
IC95	8-759-984-88	s	IC LM6361M
IC96	8-759-984-88	s	IC LM6361M
IC97	8-759-200-79	s	IC TC4049BF
IC98	8-759-982-20	s	IC RC78L02A
IC99	8-759-200-79	s	IC TC4049BF
IC101	8-759-982-20	s	IC RC78L02A
IC102	8-759-984-88	s	IC LM6361M
IC110	8-759-114-06	s	IC UPC814G2-1
IC111	8-759-114-06	s	IC UPC814G2-1
IC112	8-759-011-65	s	IC MC74HC4053F
IC113	8-759-984-88	s	IC LM6361M
IC115	8-759-009-07	s	IC MC14053BF
IC120	8-759-009-67	s	IC MC14584BF
IC121	8-759-702-07	s	IC NJM13700M
IC122	8-759-982-21	s	IC RC78L05A
IC123	8-759-982-44	s	IC RC79L05A
IC125	8-759-114-06	s	IC UPC814G2-1
JR5	1-216-295-00	s	METAL, CHIP 0-OHM
L8	1-410-718-31	s	INDUCTOR, CHIP 120uH
L11	1-410-718-31	s	INDUCTOR, CHIP 120uH
L12	1-410-718-31	s	INDUCTOR, CHIP 120uH
L16	1-410-718-31	s	INDUCTOR, CHIP 120uH
L20	1-410-718-31	s	INDUCTOR, CHIP 120uH
L23	1-410-723-61	s	INDUCTOR CHIP 330uH
L28	1-410-711-31	s	INDUCTOR CHIP 33uH
L30	1-410-718-31	s	INDUCTOR, CHIP 120uH
L31	1-410-718-31	s	INDUCTOR, CHIP 120uH
L33	1-410-714-31	s	INDUCTOR CHIP 56uH
L34	1-410-714-31	s	INDUCTOR CHIP 56uH
Q1	8-729-100-66	s	TRANSISTOR 2SC1623
Q2	8-729-216-22	s	TRANSISTOR 2SA1162
Q3	8-729-100-66	s	TRANSISTOR 2SC1623
Q4	8-729-216-22	s	TRANSISTOR 2SA1162
Q5	8-729-100-66	s	TRANSISTOR 2SC1623
Q6	8-729-216-22	s	TRANSISTOR 2SA1162
Q7	8-729-100-66	s	TRANSISTOR 2SC1623
Q8	8-729-100-66	s	TRANSISTOR 2SC1623
Q9	8-729-175-73	s	TRANSISTOR 2SC2757
Q10	8-729-100-66	s	TRANSISTOR 2SC1623
Q11	8-729-175-73	s	TRANSISTOR 2SC2757
Q12	8-729-216-22	s	TRANSISTOR 2SA1162
Q13	8-729-216-22	s	TRANSISTOR 2SA1162
Q14	8-729-175-73	s	TRANSISTOR 2SC2757
Q15	8-729-100-66	s	TRANSISTOR 2SC1623

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Ref. No. or Q'ty	Part No.	SP	Description
Q16	8-729-112-65	s	TRANSISTOR 2SA1462
Q17	8-729-100-66	s	TRANSISTOR 2SC1623
Q18	8-729-216-22	s	TRANSISTOR 2SA1162
Q19	8-729-100-66	s	TRANSISTOR 2SC1623
Q20	8-729-216-22	s	TRANSISTOR 2SA1162
Q21	8-729-216-22	s	TRANSISTOR 2SA1162
Q22	8-729-100-66	s	TRANSISTOR 2SC1623
Q23	8-729-216-22	s	TRANSISTOR 2SA1162
Q24	8-729-216-22	s	TRANSISTOR 2SA1162
Q25	8-729-112-65	s	TRANSISTOR 2SA1462
Q26	8-729-112-65	s	TRANSISTOR 2SA1462
Q27	8-729-175-73	s	TRANSISTOR 2SC2757
Q28	8-729-175-73	s	TRANSISTOR 2SC2757
Q29	8-729-175-73	s	TRANSISTOR 2SC2757
Q30	8-729-175-73	s	TRANSISTOR 2SC2757
Q31	8-729-112-65	s	TRANSISTOR 2SA1462
Q32	8-729-100-66	s	TRANSISTOR 2SC1623
Q33	8-729-216-22	s	TRANSISTOR 2SA1162
Q34	8-729-100-66	s	TRANSISTOR 2SC1623
Q35	8-729-216-22	s	TRANSISTOR 2SA1162
Q48	8-729-100-66	s	TRANSISTOR 2SC1623
Q49	8-729-100-66	s	TRANSISTOR 2SC1623
Q50	8-729-216-22	s	TRANSISTOR 2SA1162
Q51	8-729-100-66	s	TRANSISTOR 2SC1623
Q52	8-729-100-66	s	TRANSISTOR 2SC1623
Q53	8-729-216-22	s	TRANSISTOR 2SA1162
Q54	8-729-100-66	s	TRANSISTOR 2SC1623
Q55	8-729-216-22	s	TRANSISTOR 2SA1162
Q56	8-729-216-22	s	TRANSISTOR 2SA1162
Q57	8-729-112-65	s	TRANSISTOR 2SA1462
Q58	8-729-100-66	s	TRANSISTOR 2SC1623
Q59	8-729-100-66	s	TRANSISTOR 2SC1623
Q60	8-729-100-66	s	TRANSISTOR 2SC1623
Q61	8-729-175-73	s	TRANSISTOR 2SC2757
Q62	8-729-175-73	s	TRANSISTOR 2SC2757
Q63	8-729-100-66	s	TRANSISTOR 2SC1623
Q64	8-729-175-73	s	TRANSISTOR 2SC2757
Q65	8-729-175-73	s	TRANSISTOR 2SC2757
Q66	8-729-100-66	s	TRANSISTOR 2SC1623
Q67	8-729-100-66	s	TRANSISTOR 2SC1623
Q68	8-729-175-73	s	TRANSISTOR 2SC2757
Q69	8-729-100-66	s	TRANSISTOR 2SC1623
Q70	8-729-175-73	s	TRANSISTOR 2SC2757
Q71	8-729-216-22	s	TRANSISTOR 2SA1162
Q72	8-729-216-22	s	TRANSISTOR 2SA1162
Q73	8-729-100-66	s	TRANSISTOR 2SC1623
Q74	8-729-100-66	s	TRANSISTOR 2SC1623
Q75	8-729-100-66	s	TRANSISTOR 2SC1623
Q76	8-729-100-66	s	TRANSISTOR 2SC1623
Q77	8-729-175-73	s	TRANSISTOR 2SC2757
Q78	8-729-175-73	s	TRANSISTOR 2SC2757
Q79	8-729-175-73	s	TRANSISTOR 2SC2757
Q80	8-729-100-66	s	TRANSISTOR 2SC1623
Q81	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q82	8-729-112-65	s	TRANSISTOR 2SA1462
Q83	8-729-216-22	s	TRANSISTOR 2SA1162
Q84	8-729-175-73	s	TRANSISTOR 2SC2757
Q85	8-729-216-22	s	TRANSISTOR 2SA1162
Q86	8-729-216-22	s	TRANSISTOR 2SA1162

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
Q87	8-729-100-66	s	TRANSISTOR 2SC1623
Q88	8-729-100-66	s	TRANSISTOR 2SC1623
Q89	8-729-100-66	s	TRANSISTOR 2SC1623
Q90	8-729-100-66	s	TRANSISTOR 2SC1623
Q91	8-729-216-22	s	TRANSISTOR 2SA1162
Q92	8-729-216-22	s	TRANSISTOR 2SA1162
Q93	8-729-216-22	s	TRANSISTOR 2SA1162
Q94	8-729-216-22	s	TRANSISTOR 2SA1162
Q95	8-729-100-66	s	TRANSISTOR 2SC1623
Q96	8-729-216-22	s	TRANSISTOR 2SA1162
Q97	8-729-100-66	s	TRANSISTOR 2SC1623
Q98	8-729-100-66	s	TRANSISTOR 2SC1623
Q99	8-729-216-22	s	TRANSISTOR 2SA1162
Q100	8-729-100-66	s	TRANSISTOR 2SC1623
Q101	8-729-216-22	s	TRANSISTOR 2SA1162
Q102	8-729-100-66	s	TRANSISTOR 2SC1623
Q103	8-729-100-66	s	TRANSISTOR 2SC1623
Q104	8-729-175-73	s	TRANSISTOR 2SC2757
Q105	8-729-100-66	s	TRANSISTOR 2SC1623
Q106	8-729-100-66	s	TRANSISTOR 2SC1623
Q107	8-729-175-73	s	TRANSISTOR 2SC2757
Q108	8-729-216-22	s	TRANSISTOR 2SA1162
Q109	8-729-100-66	s	TRANSISTOR 2SC1623
Q110	8-729-216-22	s	TRANSISTOR 2SA1162
Q111	8-729-100-66	s	TRANSISTOR 2SC1623
Q113	8-729-100-66	s	TRANSISTOR 2SC1623
Q114	8-729-100-66	s	TRANSISTOR 2SC1623
Q115	8-729-216-22	s	TRANSISTOR 2SA1162
Q116	8-729-216-22	s	TRANSISTOR 2SA1162
Q117	8-729-100-66	s	TRANSISTOR 2SC1623
Q119	8-729-216-22	s	TRANSISTOR 2SA1162
Q120	8-729-216-22	s	TRANSISTOR 2SA1162
Q121	8-729-216-22	s	TRANSISTOR 2SA1162
Q122	8-729-216-22	s	TRANSISTOR 2SA1162
Q123	8-729-100-66	s	TRANSISTOR 2SC1623
Q124	8-729-100-66	s	TRANSISTOR 2SC1623
Q125	8-729-100-66	s	TRANSISTOR 2SC1623
Q126	8-729-100-66	s	TRANSISTOR 2SC1623
Q127	8-729-175-73	s	TRANSISTOR 2SC2757
Q128	8-729-175-73	s	TRANSISTOR 2SC2757
Q129	8-729-175-73	s	TRANSISTOR 2SC2757
Q130	8-729-100-66	s	TRANSISTOR 2SC1623
Q131	8-729-175-73	s	TRANSISTOR 2SC2757
Q132	8-729-175-73	s	TRANSISTOR 2SC2757
Q133	8-729-175-73	s	TRANSISTOR 2SC2757
Q134	8-729-100-66	s	TRANSISTOR 2SC1623
Q135	8-729-100-66	s	TRANSISTOR 2SC1623
Q136	8-729-175-73	s	TRANSISTOR 2SC2757
Q137	8-729-100-66	s	TRANSISTOR 2SC1623
Q138	8-729-175-73	s	TRANSISTOR 2SC2757
Q139	8-729-216-22	s	TRANSISTOR 2SA1162
Q140	8-729-216-22	s	TRANSISTOR 2SA1162
Q141	8-729-100-66	s	TRANSISTOR 2SC1623
Q142	8-729-100-66	s	TRANSISTOR 2SC1623
Q143	8-729-100-66	s	TRANSISTOR 2SC1623
Q144	8-729-100-66	s	TRANSISTOR 2SC1623
Q145	8-729-175-73	s	TRANSISTOR 2SC2757
Q147	8-729-175-73	s	TRANSISTOR 2SC2757
Q148	8-729-175-73	s	TRANSISTOR 2SC2757

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Ref. No. or Q'ty	Part No.	SP	Description
Q149	8-729-100-66	s	TRANSISTOR 2SC1623
Q150	8-729-100-66	s	TRANSISTOR 2SC1623
Q151	8-729-216-22	s	TRANSISTOR 2SA1162
Q155	8-729-100-66	s	TRANSISTOR 2SC1623
Q156	8-729-216-22	s	TRANSISTOR 2SA1162
Q157	8-729-100-66	s	TRANSISTOR 2SC1623
Q158	8-729-216-22	s	TRANSISTOR 2SA1162
Q160	8-729-216-22	s	TRANSISTOR 2SA1162
Q161	8-729-216-22	s	TRANSISTOR 2SA1162
Q162	8-729-100-66	s	TRANSISTOR 2SC1623
Q169	8-729-100-66	s	TRANSISTOR 2SC1623
Q170	8-729-100-66	s	TRANSISTOR 2SC1623
Q171	8-729-175-73	s	TRANSISTOR 2SC2757
Q172	8-729-175-73	s	TRANSISTOR 2SC2757
Q173	8-729-100-66	s	TRANSISTOR 2SC1623
Q174	8-729-175-73	s	TRANSISTOR 2SC2757
Q175	8-729-175-73	s	TRANSISTOR 2SC2757
Q176	8-729-100-66	s	TRANSISTOR 2SC1623
Q177	8-729-100-66	s	TRANSISTOR 2SC1623
Q178	8-729-175-73	s	TRANSISTOR 2SC2757
Q179	8-729-100-66	s	TRANSISTOR 2SC1623
Q180	8-729-216-22	s	TRANSISTOR 2SA1162
Q181	8-729-100-66	s	TRANSISTOR 2SC1623
Q182	8-729-216-22	s	TRANSISTOR 2SA1162
Q183	8-729-100-66	s	TRANSISTOR 2SC1623
Q184	8-729-175-73	s	TRANSISTOR 2SC2757
Q185	8-729-216-22	s	TRANSISTOR 2SA1162
Q186	8-729-216-22	s	TRANSISTOR 2SA1162
Q187	8-729-100-66	s	TRANSISTOR 2SC1623
Q188	8-729-100-66	s	TRANSISTOR 2SC1623
Q189	8-729-100-66	s	TRANSISTOR 2SC1623
Q190	8-729-100-66	s	TRANSISTOR 2SC1623
Q191	8-729-175-73	s	TRANSISTOR 2SC2757
Q193	8-729-175-73	s	TRANSISTOR 2SC2757
Q194	8-729-175-73	s	TRANSISTOR 2SC2757
Q197	8-729-100-66	s	TRANSISTOR 2SC1623
Q198	8-729-100-66	s	TRANSISTOR 2SC1623
Q199	8-729-100-66	s	TRANSISTOR 2SC1623
Q200	8-729-100-66	s	TRANSISTOR 2SC1623
Q201	8-729-100-66	s	TRANSISTOR 2SC1623
Q202	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q203	8-729-216-22	s	TRANSISTOR 2SA1162
Q205	8-729-100-66	s	TRANSISTOR 2SC1623
Q206	8-729-100-66	s	TRANSISTOR 2SC1623
Q207	8-729-100-66	s	TRANSISTOR 2SC1623
Q208	8-729-100-66	s	TRANSISTOR 2SC1623
Q209	8-729-216-22	s	TRANSISTOR 2SA1162
Q210	8-729-100-66	s	TRANSISTOR 2SC1623
Q211	8-729-100-66	s	TRANSISTOR 2SC1623
Q212	8-729-100-66	s	TRANSISTOR 2SC1623
Q213	8-729-100-66	s	TRANSISTOR 2SC1623
Q214	8-729-100-66	s	TRANSISTOR 2SC1623
Q215	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q216	8-729-216-22	s	TRANSISTOR 2SA1162
Q218	8-729-100-66	s	TRANSISTOR 2SC1623
Q219	8-729-100-66	s	TRANSISTOR 2SC1623
Q220	8-729-100-66	s	TRANSISTOR 2SC1623
Q221	8-729-100-66	s	TRANSISTOR 2SC1623
Q222	8-729-100-66	s	TRANSISTOR 2SC1623

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
Q223	8-729-112-65	s	TRANSISTOR 2SA1462
Q224	8-729-216-22	s	TRANSISTOR 2SA1162
Q225	8-729-100-66	s	TRANSISTOR 2SC1623
Q226	8-729-112-65	s	TRANSISTOR 2SA1462
Q227	8-729-216-22	s	TRANSISTOR 2SA1162
Q228	8-729-100-66	s	TRANSISTOR 2SC1623
Q229	8-729-112-65	s	TRANSISTOR 2SA1462
Q230	8-729-216-22	s	TRANSISTOR 2SA1162
Q231	8-729-100-66	s	TRANSISTOR 2SC1623
Q232	8-729-112-65	s	TRANSISTOR 2SA1462
Q233	8-729-216-22	s	TRANSISTOR 2SA1162
Q234	8-729-100-66	s	TRANSISTOR 2SC1623
Q235	8-729-216-22	s	TRANSISTOR 2SA1162
Q236	8-729-216-22	s	TRANSISTOR 2SA1162
Q237	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q238	8-729-216-22	s	TRANSISTOR 2SA1162
Q239	8-729-100-66	s	TRANSISTOR 2SC1623
Q240	8-729-100-66	s	TRANSISTOR 2SC1623
Q241	8-729-216-22	s	TRANSISTOR 2SA1162
Q242	8-729-216-22	s	TRANSISTOR 2SA1162
Q243	8-729-112-65	s	TRANSISTOR 2SA1462
Q244	8-729-112-65	s	TRANSISTOR 2SA1462
Q245	8-729-112-65	s	TRANSISTOR 2SA1462
Q246	8-729-112-65	s	TRANSISTOR 2SA1462
Q247	8-729-175-73	s	TRANSISTOR 2SC2757
Q248	8-729-175-73	s	TRANSISTOR 2SC2757
Q249	8-729-175-73	s	TRANSISTOR 2SC2757
Q252	8-729-100-66	s	TRANSISTOR 2SC1623
Q253	8-729-112-65	s	TRANSISTOR 2SA1462
Q254	8-729-216-22	s	TRANSISTOR 2SA1162
Q255	8-729-100-66	s	TRANSISTOR 2SC1623
Q256	8-729-112-65	s	TRANSISTOR 2SA1462
Q257	8-729-216-22	s	TRANSISTOR 2SA1162
Q258	8-729-100-66	s	TRANSISTOR 2SC1623
Q259	8-729-112-65	s	TRANSISTOR 2SA1462
Q260	8-729-216-22	s	TRANSISTOR 2SA1162
Q261	8-729-100-66	s	TRANSISTOR 2SC1623
Q262	8-729-112-65	s	TRANSISTOR 2SA1462
Q263	8-729-216-22	s	TRANSISTOR 2SA1162
Q264	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q265	8-729-216-22	s	TRANSISTOR 2SA1162
Q266	8-729-100-66	s	TRANSISTOR 2SC1623
Q267	8-729-100-66	s	TRANSISTOR 2SC1623
Q268	8-729-216-22	s	TRANSISTOR 2SA1162
Q269	8-729-216-22	s	TRANSISTOR 2SA1162
Q270	8-729-112-65	s	TRANSISTOR 2SA1462
Q271	8-729-112-65	s	TRANSISTOR 2SA1462
Q272	8-729-112-65	s	TRANSISTOR 2SA1462
Q273	8-729-112-65	s	TRANSISTOR 2SA1462
Q274	8-729-175-73	s	TRANSISTOR 2SC2757
Q275	8-729-175-73	s	TRANSISTOR 2SC2757
Q276	8-729-175-73	s	TRANSISTOR 2SC2757
Q277	8-729-140-96	s	TRANSISTOR 2SD774-4
Q278	8-729-100-66	s	TRANSISTOR 2SC1623
Q279	8-729-100-66	s	TRANSISTOR 2SC1623
Q280	8-729-100-66	s	TRANSISTOR 2SC1623
Q281	8-729-216-22	s	TRANSISTOR 2SA1162
Q285	8-729-216-22	s	TRANSISTOR 2SA1162
Q286	8-729-904-04	s	TRANSISTOR FMS2

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Ref. No. or Q'ty	Part No.	SP	Description
Q287	8-729-907-47	s	TRANSISTOR IMZ1T108
Q288	8-729-907-47	s	TRANSISTOR IMZ1T108
Q289	8-729-903-82	s	TRANSISTOR FMW2
Q290	8-729-904-04	s	TRANSISTOR FMS2
Q291	8-729-907-47	s	TRANSISTOR IMZ1T108
Q292	8-729-907-47	s	TRANSISTOR IMZ1T108
Q293	8-729-903-82	s	TRANSISTOR FMW2
Q294	8-729-904-04	s	TRANSISTOR FMS2
Q295	8-729-907-47	s	TRANSISTOR IMZ1T108
Q296	8-729-907-47	s	TRANSISTOR IMZ1T108
Q297	8-729-903-82	s	TRANSISTOR FMW2
Q298	8-729-904-04	s	TRANSISTOR FMS2
Q299	8-729-907-47	s	TRANSISTOR IMZ1T108
Q300	8-729-907-47	s	TRANSISTOR IMZ1T108
Q301	8-729-903-82	s	TRANSISTOR FMW2
Q302	8-729-904-04	s	TRANSISTOR FMS2
Q303	8-729-907-47	s	TRANSISTOR IMZ1T108
Q304	8-729-907-47	s	TRANSISTOR IMZ1T108
Q305	8-729-903-82	s	TRANSISTOR FMW2
Q306	8-729-904-04	s	TRANSISTOR FMS2
Q307	8-729-907-47	s	TRANSISTOR IMZ1T108
Q308	8-729-907-47	s	TRANSISTOR IMZ1T108
Q309	8-729-903-82	s	TRANSISTOR FMW2
Q310	8-729-904-04	s	TRANSISTOR FMS2
Q311	8-729-907-47	s	TRANSISTOR IMZ1T108
Q312	8-729-907-47	s	TRANSISTOR IMZ1T108
Q313	8-729-903-82	s	TRANSISTOR FMW2
Q314	8-729-904-04	s	TRANSISTOR FMS2
Q315	8-729-907-47	s	TRANSISTOR IMZ1T108
Q316	8-729-907-47	s	TRANSISTOR IMZ1T108
Q317	8-729-903-82	s	TRANSISTOR FMW2
Q320	8-729-100-66	s	TRANSISTOR 2SC1623
Q321	8-729-100-66	s	TRANSISTOR 2SC1623
Q322	8-729-112-65	s	TRANSISTOR 2SA1462
Q323	8-729-100-66	s	TRANSISTOR 2SC1623
Q324	8-729-100-66	s	TRANSISTOR 2SC1623
Q325	8-729-100-66	s	TRANSISTOR 2SC1623
Q326	8-729-100-66	s	TRANSISTOR 2SC1623
Q327	8-729-100-66	s	TRANSISTOR 2SC1623
Q328	8-729-175-73	s	TRANSISTOR 2SC2757
Q329	8-729-175-73	s	TRANSISTOR 2SC2757
Q330	8-729-100-66	s	TRANSISTOR 2SC1623
Q331	8-729-100-66	s	TRANSISTOR 2SC1623
Q332	8-729-175-73	s	TRANSISTOR 2SC2757
Q333	8-729-175-73	s	TRANSISTOR 2SC2757
Q335	8-729-100-66	s	TRANSISTOR 2SC1623
Q336	8-729-216-22	s	TRANSISTOR 2SA1162
Q337	8-729-112-65	s	TRANSISTOR 2SA1462
Q338	8-729-100-66	s	TRANSISTOR 2SC1623
Q339	8-729-216-22	s	TRANSISTOR 2SA1162
Q340	8-729-112-65	s	TRANSISTOR 2SA1462
Q341	8-729-100-66	s	TRANSISTOR 2SC1623
Q342	8-729-216-22	s	TRANSISTOR 2SA1162
Q343	8-729-112-65	s	TRANSISTOR 2SA1462
Q344	8-729-100-66	s	TRANSISTOR 2SC1623
Q345	8-729-216-22	s	TRANSISTOR 2SA1162
Q346	8-729-112-65	s	TRANSISTOR 2SA1462
Q350	8-729-216-22	s	TRANSISTOR 2SA1162
Q360	8-729-175-73	s	TRANSISTOR 2SC2757

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
Q361	8-729-112-65	s	TRANSISTOR 2SA1462
Q362	8-729-216-22	s	TRANSISTOR 2SA1162
Q363	8-729-100-66	s	TRANSISTOR 2SC1623
Q364	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q365	8-729-112-65	s	TRANSISTOR 2SA1462
Q366	8-729-175-73	s	TRANSISTOR 2SC2757
Q367	8-729-100-66	s	TRANSISTOR 2SC1623
Q368	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q369	8-729-112-65	s	TRANSISTOR 2SA1462
Q370	8-729-216-22	s	TRANSISTOR 2SA1162
Q371	8-729-100-66	s	TRANSISTOR 2SC1623
Q372	8-729-100-66	s	TRANSISTOR 2SC1623
Q373	8-729-100-66	s	TRANSISTOR 2SC1623
Q374	8-729-216-22	s	TRANSISTOR 2SA1162
Q375	8-729-216-22	s	TRANSISTOR 2SA1162
Q376	8-729-112-65	s	TRANSISTOR 2SA1462
Q377	8-729-100-66	s	TRANSISTOR 2SC1623
Q378	8-729-175-73	s	TRANSISTOR 2SC2757
Q379	8-729-100-66	s	TRANSISTOR 2SC1623
R82	1-216-309-00	s	METAL 5.6 5% 1/10W
R83	1-216-309-00	s	METAL 5.6 5% 1/10W
R84	1-216-309-00	s	METAL 5.6 5% 1/10W
R85	1-216-309-00	s	METAL 5.6 5% 1/10W
R86	1-215-394-00	s	METAL 75 1% 1/6W
R87	1-215-394-00	s	METAL 75 1% 1/6W
R102	1-215-394-00	s	METAL 75 1% 1/6W
R103	1-215-394-00	s	METAL 75 1% 1/6W
R155	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R167	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R329	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R341	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R447	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R459	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R656	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R721	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R819	1-216-113-00	s	METAL, CHIP 470K 5% 1/10W
R1020	1-216-107-00	s	METAL, CHIP 270K 5% 1/10W
R1024	1-216-621-11	s	METAL 56 0.50% 1/10W
R1027	1-216-621-11	s	METAL 56 0.50% 1/10W
R1088	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R1091	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R1107	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R1111	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R1150	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
RV1	1-237-501-21	s	RES, ADJ, METAL 2K
RV2	1-237-037-11	s	RES, ADJ, METAL 20K
RV4	1-237-036-11	s	RES, ADJ, METAL 10K
RV5	1-237-036-11	s	RES, ADJ, METAL 10K
RV6	1-237-037-11	s	RES, ADJ, METAL 20K
RV7	1-237-036-11	s	RES, ADJ, METAL 10K
RV8	1-237-501-21	s	RES, ADJ, METAL 2K
RV9	1-237-032-11	s	RES, ADJ, METAL 500
RV10	1-237-035-11	s	RES, ADJ, METAL 5K
RV11	1-237-035-11	s	RES, ADJ, METAL 5K
RV13	1-237-501-21	s	RES, ADJ, METAL 2K
RV16	1-237-032-11	s	RES, ADJ, METAL 500
RV17	1-237-033-11	s	RES, ADJ, METAL 1K
RV18	1-237-037-11	s	RES, ADJ, METAL 20K
RV19	1-237-037-11	s	RES, ADJ, METAL 20K

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Ref. No. or Q'ty	Part No.	SP	Description
RV20	1-237-037-11	s	RES, ADJ, METAL 20K
RV21	1-237-037-11	s	RES, ADJ, METAL 20K
RV23	1-237-033-11	s	RES, ADJ, METAL 1K
RV24	1-237-035-11	s	RES, ADJ, METAL 5K
RV25	1-237-033-11	s	RES, ADJ, METAL 1K
RV26	1-237-035-11	s	RES, ADJ, METAL 5K
RV27	1-237-035-11	s	RES, ADJ, METAL 5K
RV28	1-237-035-11	s	RES, ADJ, METAL 5K
RV30	1-237-032-11	s	RES, ADJ, METAL 500
RV31	1-237-033-11	s	RES, ADJ, METAL 1K
RV32	1-237-032-11	s	RES, ADJ, METAL 500
RV34	1-237-036-11	s	RES, ADJ, METAL 10K
RV35	1-237-037-11	s	RES, ADJ, METAL 20K
RV36	1-237-034-11	s	RES, ADJ, METAL 2K
RV37	1-237-036-11	s	RES, ADJ, METAL 10K
RV38	1-237-036-11	s	RES, ADJ, METAL 10K
RV39	1-237-033-11	s	RES, ADJ, METAL 1K
RV40	1-237-032-11	s	RES, ADJ, METAL 500
RV41	1-237-033-11	s	RES, ADJ, METAL 1K
RV42	1-237-033-11	s	RES, ADJ, METAL 1K
RV43	1-237-032-11	s	RES, ADJ, METAL 500
RV44	1-237-036-11	s	RES, ADJ, METAL 10K
RV45	1-237-037-11	s	RES, ADJ, METAL 20K
RV46	1-237-033-11	s	RES, ADJ, METAL 1K
RV47	1-237-035-11	s	RES, ADJ, METAL 5K
RV48	1-237-033-11	s	RES, ADJ, METAL 1K
RV49	1-237-035-11	s	RES, ADJ, METAL 5K
RV50	1-237-035-11	s	RES, ADJ, METAL 5K
RV51	1-237-035-11	s	RES, ADJ, METAL 5K
RV53	1-237-032-11	s	RES, ADJ, METAL 500
RV55	1-237-032-11	s	RES, ADJ, METAL 500
RV56	1-237-036-11	s	RES, ADJ, METAL 10K
RV57	1-237-036-11	s	RES, ADJ, METAL 10K
RV60	1-237-033-11	s	RES, ADJ, METAL 1K
RV61	1-237-033-11	s	RES, ADJ, METAL 1K
RV62	1-237-033-11	s	RES, ADJ, METAL 1K
RV63	1-237-035-11	s	RES, ADJ, METAL 5K
RV64	1-237-033-11	s	RES, ADJ, METAL 1K
RV65	1-237-035-11	s	RES, ADJ, METAL 5K
RV66	1-237-035-11	s	RES, ADJ, METAL 5K
RV67	1-237-033-11	s	RES, ADJ, METAL 1K
RV68	1-237-033-11	s	RES, ADJ, METAL 1K
RV69	1-237-035-11	s	RES, ADJ, METAL 5K
RV71	1-237-032-11	s	RES, ADJ, METAL 500
RV73	1-237-032-11	s	RES, ADJ, METAL 500
RV75	1-237-039-11	s	RES, ADJ, METAL 100K
RV76	1-237-033-11	s	RES, ADJ, METAL 1K
RV77	1-237-039-11	s	RES, ADJ, METAL 100K
RV78	1-237-037-11	s	RES, ADJ, METAL 20K
RV79	1-237-039-11	s	RES, ADJ, METAL 100K
RV80	1-237-033-11	s	RES, ADJ, METAL 1K
RV81	1-237-037-11	s	RES, ADJ, METAL 20K
RV82	1-237-032-11	s	RES, ADJ, METAL 500
RV83	1-237-031-11	s	RES, ADJ, METAL 200
RV84	1-237-032-11	s	RES, ADJ, METAL 500
RV85	1-237-032-11	s	RES, ADJ, METAL 500
RV86	1-237-039-11	s	RES, ADJ, METAL 100K
RV87	1-237-032-11	s	RES, ADJ, METAL 500
RV88	1-237-032-11	s	RES, ADJ, METAL 500

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Ref. No. or Q'ty	Part No.	SP	Description
RV89	1-237-031-11	s	RES, ADJ, METAL 200
RV90	1-237-037-11	s	RES, ADJ, METAL 20K
RV91	1-237-037-11	s	RES, ADJ, METAL 20K
RV92	1-237-039-11	s	RES, ADJ, METAL 100K
RV93	1-237-039-11	s	RES, ADJ, METAL 100K
RV94	1-237-039-11	s	RES, ADJ, METAL 100K
RV95	1-237-039-11	s	RES, ADJ, METAL 100K
RV96	1-237-039-11	s	RES, ADJ, METAL 100K
RV97	1-237-037-11	s	RES, ADJ, METAL 20K
RV98	1-237-039-11	s	RES, ADJ, METAL 100K
RV99	1-237-037-11	s	RES, ADJ, METAL 20K
RV100	1-237-039-11	s	RES, ADJ, METAL 100K
RV101	1-237-037-11	s	RES, ADJ, METAL 20K
RV102	1-237-039-11	s	RES, ADJ, METAL 100K
RV103	1-237-039-11	s	RES, ADJ, METAL 100K
RV104	1-237-039-11	s	RES, ADJ, METAL 100K
RV105	1-237-037-11	s	RES, ADJ, METAL 20K
RV106	1-237-037-11	s	RES, ADJ, METAL 20K
RV109	1-237-039-11	s	RES, ADJ, METAL 100K
RV110	1-237-039-11	s	RES, ADJ, METAL 100K
RV111	1-237-039-11	s	RES, ADJ, METAL 100K
RV112	1-237-039-11	s	RES, ADJ, METAL 100K
RV113	1-237-037-11	s	RES, ADJ, METAL 20K
RV114	1-237-036-11	s	RES, ADJ, METAL 10K
RV115	1-237-037-11	s	RES, ADJ, METAL 20K
RV116	1-237-037-11	s	RES, ADJ, METAL 20K
RV117	1-237-037-11	s	RES, ADJ, METAL 20K
RV118	1-237-036-11	s	RES, ADJ, METAL 10K
RV119	1-237-037-11	s	RES, ADJ, METAL 20K
RV125	1-237-039-11	s	RES, ADJ, METAL 100K
RV126	1-237-037-11	s	RES, ADJ, METAL 20K
RV130	1-237-034-11	s	RES, ADJ, METAL 2K
RV131	1-237-034-11	s	RES, ADJ, METAL 2K
RV132	1-237-033-11	s	RES, ADJ, METAL 1K
RV133	1-237-032-11	s	RES, ADJ, METAL 500
RV134	1-237-035-11	s	RES, ADJ, METAL 5K
S2	1-554-399-00	s	SWITCH, TOGGLE
S4	1-554-399-00	s	SWITCH, TOGGLE
S5	1-554-896-21	s	SWITCH, SLIDE
S6	1-570-602-11	s	SWITCH, DIP 2-CKT
S7	1-570-602-11	s	SWITCH, DIP 2-CKT
S8	1-570-602-11	s	SWITCH, DIP 2-CKT
S9	1-570-373-12	s	SWITCH, SLIDE
S10	1-570-373-12	s	SWITCH, SLIDE

SD-20 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-250-A	o	MOUNTED CIRCUIT BOARD, SD-20 (P)
2pcs	1-563-521-11	o	CONNECTOR, 20P, FEMALE
1pc	2-139-140-01	o	PLATE, SHIELD
1pc	2-182-909-01	o	LEVER, PC BOARD
12pcs	3-621-124-00	o	SPACER
1pc	7-626-320-11	o	PIN, SPRING 3X8
2pcs	7-682-947-01	s	SCREW +PSW 3X6
3pcs	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
C2	1-124-589-11	s	ELECT 47uF 20% 16V
C3	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C5	1-124-589-11	s	ELECT 47uF 20% 16V
C7	1-124-589-11	s	ELECT 47uF 20% 16V
C11	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C20	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C22	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C24	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C27	1-124-589-11	s	ELECT 47uF 20% 16V
C30	1-124-589-11	s	ELECT 47uF 20% 16V
C36	1-124-589-11	s	ELECT 47uF 20% 16V
C38	1-124-589-11	s	ELECT 47uF 20% 16V
C40	1-124-589-11	s	ELECT 47uF 20% 16V
C42	1-124-589-11	s	ELECT 47uF 20% 16V
C48	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C57	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C62	1-124-589-11	s	ELECT 47uF 20% 16V
C63	1-107-085-00	s	MICA 100PF 5% 50V
C64	1-107-085-00	s	MICA 100PF 5% 50V
C66	1-131-374-00	s	TANTALUM 33uF 10% 16V
C67	1-131-374-00	s	TANTALUM 33uF 10% 16V
C68	1-131-374-00	s	TANTALUM 33uF 10% 16V
C69	1-131-374-00	s	TANTALUM 33uF 10% 16V
C70	1-131-374-00	s	TANTALUM 33uF 10% 16V
C71	1-131-374-00	s	TANTALUM 33uF 10% 16V
C72	1-131-374-00	s	TANTALUM 33uF 10% 16V
C73	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C74	1-126-157-11	s	ELECT 10uF 20% 16V
C75	1-124-589-11	s	ELECT 47uF 20% 16V
C77	1-124-589-11	s	ELECT 47uF 20% 16V
C80	1-124-589-11	s	ELECT 47uF 20% 16V
C83	1-124-589-11	s	ELECT 47uF 20% 16V
C85	1-124-589-11	s	ELECT 47uF 20% 16V
C86	1-107-202-00	s	MICA 10PF 5% 500V
C87	1-107-085-00	s	MICA 100PF 5% 50V
C88	1-107-209-00	s	MICA 20PF 5% 500V
C95	1-124-589-11	s	ELECT 47uF 20% 16V
C97	1-124-589-11	s	ELECT 47uF 20% 16V
C99	1-124-589-11	s	ELECT 47uF 20% 16V
C102	1-124-589-11	s	ELECT 47uF 20% 16V
C104	1-124-589-11	s	ELECT 47uF 20% 16V
C106	1-124-589-11	s	ELECT 47uF 20% 16V
C107	1-107-209-00	s	MICA 20PF 5% 500V
C111	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C116	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C117	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C120	1-124-589-11	s	ELECT 47uF 20% 16V
C301	1-124-589-11	s	ELECT 47uF 20% 16V
C303	1-124-589-11	s	ELECT 47uF 20% 16V
C305	1-124-589-11	s	ELECT 47uF 20% 16V

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(SD-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C306	1-124-589-11	s	ELECT 47uF 20% 16V
C307	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C311	1-124-589-11	s	ELECT 47uF 20% 16V
C314	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C315	1-124-589-11	s	ELECT 47uF 20% 16V
C320	1-124-589-11	s	ELECT 47uF 20% 16V
C322	1-124-589-11	s	ELECT 47uF 20% 16V
C323	1-124-589-11	s	ELECT 47uF 20% 16V
C324	1-124-589-11	s	ELECT 47uF 20% 16V
C325	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C329	1-124-589-11	s	ELECT 47uF 20% 16V
C330	1-124-589-11	s	ELECT 47uF 20% 16V
C332	1-124-589-11	s	ELECT 47uF 20% 16V
C334	1-124-589-11	s	ELECT 47uF 20% 16V
C335	1-124-589-11	s	ELECT 47uF 20% 16V
C336	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C340	1-124-589-11	s	ELECT 47uF 20% 16V
C344	1-124-589-11	s	ELECT 47uF 20% 16V
C345	1-124-589-11	s	ELECT 47uF 20% 16V
C348	1-124-589-11	s	ELECT 47uF 20% 16V
C354	1-131-353-00	s	TANTALUM 10uF 10% 35V
C355	1-131-353-00	s	TANTALUM 10uF 10% 35V
C356	1-131-353-00	s	TANTALUM 10uF 10% 35V
C500	1-107-085-00	s	MICA 100PF 5% 50V
C501	1-107-085-00	s	MICA 100PF 5% 50V
C509	1-107-077-00	s	MICA 47PF 5% 50V
C514	1-131-353-00	s	TANTALUM 10uF 10% 35V
C516	1-131-353-00	s	TANTALUM 10uF 10% 35V
C526	1-124-589-11	s	ELECT 47uF 20% 16V
C529	1-124-589-11	s	ELECT 47uF 20% 16V
C531	1-124-589-11	s	ELECT 47uF 20% 16V
C534	1-124-589-11	s	ELECT 47uF 20% 16V
C536	1-107-085-00	s	MICA 100PF 5% 50V
C539	1-107-085-00	s	MICA 100PF 5% 50V
C542	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C543	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C546	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C547	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C548	1-124-589-11	s	ELECT 47uF 20% 16V
C550	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C553	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C559	1-131-353-00	s	TANTALUM 10uF 10% 35V
C560	1-131-353-00	s	TANTALUM 10uF 10% 35V
C562	1-107-210-00	s	MICA 22PF 5% 500V
C564	1-126-157-11	s	ELECT 10uF 20% 16V
C565	1-131-353-00	s	TANTALUM 10uF 10% 35V
C567	1-131-353-00	s	TANTALUM 10uF 10% 35V
C570	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C571	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C572	1-107-085-00	s	MICA 100PF 5% 50V
C574	1-107-085-00	s	MICA 100PF 5% 50V
C577	1-107-209-00	s	MICA 20PF 5% 500V
C578	1-107-207-00	s	MICA 16PF 5% 500V
C579	1-107-207-00	s	MICA 16PF 5% 500V
C581	1-131-353-00	s	TANTALUM 10uF 10% 35V
C583	1-107-157-00	s	MICA 27PF 5% 500V
C584	1-107-157-00	s	MICA 27PF 5% 500V
C601	1-124-589-11	s	ELECT 47uF 20% 16V
C603	1-124-589-11	s	ELECT 47uF 20% 16V

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Ref. No. or Q'ty	Part No.	SP	Description
C605	1-124-443-00	s	ELECT 100uF 20% 10V
C607	1-126-157-11	s	ELECT 10uF 20% 16V
C608	1-124-443-00	s	ELECT 100uF 20% 10V
C610	1-126-157-11	s	ELECT 10uF 20% 16V
C611	1-124-443-00	s	ELECT 100uF 20% 10V
C613	1-126-157-11	s	ELECT 10uF 20% 16V
C615	1-124-589-11	s	ELECT 47uF 20% 16V
C617	1-124-589-11	s	ELECT 47uF 20% 16V
C619	1-124-589-11	s	ELECT 47uF 20% 16V
C623	1-126-157-11	s	ELECT 10uF 20% 16V
C627	1-124-589-11	s	ELECT 47uF 20% 16V
C629	1-124-589-11	s	ELECT 47uF 20% 16V
C637	1-126-157-11	s	ELECT 10uF 20% 16V
C640	1-124-589-11	s	ELECT 47uF 20% 16V
C642	1-124-589-11	s	ELECT 47uF 20% 16V
C644	1-124-589-11	s	ELECT 47uF 20% 16V
C702	1-124-589-11	s	ELECT 47uF 20% 16V
C705	1-124-589-11	s	ELECT 47uF 20% 16V
C707	1-107-210-00	s	MICA 22PF 5% 500V
C711	1-107-085-00	s	MICA 100PF 5% 50V
C712	1-109-539-00	s	MICA 150PF 5% 100V
C713	1-124-589-11	s	ELECT 47uF 20% 16V
C715	1-126-160-11	s	ELECT 1uF 20% 50V
C718	1-124-589-11	s	ELECT 47uF 20% 16V
C719	1-109-539-00	s	MICA 150PF 5% 100V
C721	1-124-589-11	s	ELECT 47uF 20% 16V
C723	1-124-589-11	s	ELECT 47uF 20% 16V
C724	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C725	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C727	1-126-320-11	s	ELECT, NONPOLAR 10uF 20% 16V
C728	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C731	1-124-589-11	s	ELECT 47uF 20% 16V
C733	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C734	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C739	1-124-589-11	s	ELECT 47uF 20% 16V
C740	1-124-589-11	s	ELECT 47uF 20% 16V
C743	1-124-589-11	s	ELECT 47uF 20% 16V
C746	1-107-209-00	s	MICA 20PF 5% 500V
C748	1-107-207-00	s	MICA 16PF 5% 500V
C749	1-107-207-00	s	MICA 16PF 5% 500V
C751	1-124-589-11	s	ELECT 47uF 20% 16V
C752	1-107-208-00	s	MICA 18PF 5% 500V
C753	1-107-202-00	s	MICA 10PF 5% 500V
C754	1-124-589-11	s	ELECT 47uF 20% 16V
C756	1-124-589-11	s	ELECT 47uF 20% 16V
C758	1-124-589-11	s	ELECT 47uF 20% 16V
C759	1-124-589-11	s	ELECT 47uF 20% 16V
C760	1-124-589-11	s	ELECT 47uF 20% 16V
C761	1-124-589-11	s	ELECT 47uF 20% 16V
C801	1-131-353-00	s	TANTALUM 10uF 10% 35V
C804	1-124-589-11	s	ELECT 47uF 20% 16V
C805	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C807	1-131-353-00	s	TANTALUM 10uF 10% 35V
C810	1-107-166-00	s	MICA 62PF 5% 50V
C811	1-107-210-00	s	MICA 22PF 5% 500V
C812	1-107-166-00	s	MICA 62PF 5% 50V
C814	1-107-085-00	s	MICA 100PF 5% 50V
C816	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C817	1-131-353-00	s	TANTALUM 10uF 10% 35V

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
C819	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C820	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C822	1-131-353-00	s	TANTALUM 10uF 10% 35V
C825	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C826	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C830	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C831	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C834	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C837	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C839	1-109-539-00	s	MICA 150PF 5% 100V
C845	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C846	1-107-036-00	s	MICA 68PF 5% 500V
C847	1-107-085-00	s	MICA 100PF 5% 50V
C848	1-107-209-00	s	MICA 20PF 5% 500V
C849	1-107-202-00	s	MICA 10PF 5% 500V
C855	1-131-353-00	s	TANTALUM 10uF 10% 35V
C862	1-131-353-00	s	TANTALUM 10uF 10% 35V
C867	1-135-164-21	s	TANTAL 22uF 10% 16V
C870	1-109-542-00	s	MICA 220PF 5% 100V
C871	1-109-555-00	s	MICA 560PF 5% 50V
C873	1-107-085-00	s	MICA 100PF 5% 50V
C874	1-107-085-00	s	MICA 100PF 5% 50V
C876	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C880	1-107-210-00	s	MICA 22PF 5% 500V
C881	1-107-202-00	s	MICA 10PF 5% 500V
C882	1-107-210-00	s	MICA 22PF 5% 500V
CN1	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN2	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
D1	8-719-800-76	s	DIODE 1SS226
D2	8-719-109-75	s	DIODE RD4.3ES-B2
D3	8-719-109-81	s	DIODE RD4.7ES-B2
D4	8-719-100-05	s	DIODE 1S2837
D5	8-719-100-05	s	DIODE 1S2837
D6	8-719-100-05	s	DIODE 1S2837
D7	8-719-100-05	s	DIODE 1S2837
D8	8-719-100-05	s	DIODE 1S2837
D9	8-719-100-05	s	DIODE 1S2837
D10	8-719-100-05	s	DIODE 1S2837
D500	8-719-800-76	s	DIODE 1SS226
D501	8-719-800-76	s	DIODE 1SS226
D502	8-719-800-76	s	DIODE 1SS226
D503	8-719-800-76	s	DIODE 1SS226
D504	8-719-800-76	s	DIODE 1SS226
D505	8-719-109-93	s	DIODE RD6.2ES-B2
D506	8-719-109-93	s	DIODE RD6.2ES-B2
D700	8-719-800-76	s	DIODE 1SS226
D801	8-719-100-03	s	DIODE 1S2835
D802	8-719-100-03	s	DIODE 1S2835
D803	8-719-100-03	s	DIODE 1S2835
D804	8-719-100-03	s	DIODE 1S2835
D805	8-719-800-76	s	DIODE 1SS226
DL1	1-415-583-11	s	DELAY LINE
DL2	1-415-583-11	s	DELAY LINE
DL3	1-415-583-11	s	DELAY LINE
DL4	1-415-583-11	s	DELAY LINE
DL5	1-415-583-11	s	DELAY LINE
DL6	1-415-583-11	s	DELAY LINE

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Ref. No. or Q'ty	Part No.	SP	Description
DL601	1-415-339-00	s	DELAY LINE 300nS
DL602	1-415-168-00	s	DELAY LINE 200ns
DL603	1-415-339-00	s	DELAY LINE 300nS
DL604	1-415-339-00	s	DELAY LINE 300nS
FL500	1-235-584-11	s	FILTER, LOW PASS
FL501	1-235-786-11	s	FILTER, LOW PASS 3MHz
FL502	1-235-584-11	s	FILTER, LOW PASS
FL503	1-235-584-11	s	FILTER, LOW PASS
FL504	1-235-181-00	s	FILTER, BANDPASS 4.43MHz
FL700	1-235-584-11	s	FILTER, LOW PASS
FL701	1-235-181-00	s	FILTER, BANDPASS 4.43MHz
FL801	1-235-181-00	s	FILTER, BANDPASS 4.43MHz
FL802	1-235-181-00	s	FILTER, BANDPASS 4.43MHz
IC1	8-759-702-07	s	IC NJM13700M
IC2	8-741-100-42	s	IC SBX1594-01
IC3	8-759-908-17	s	IC TL082CPS
IC4	8-759-908-17	s	IC TL082CPS
IC5	8-759-984-88	s	IC LM6361M
IC6	8-759-984-88	s	IC LM6361M
IC7	8-759-009-07	s	IC MC14053BF
IC8	8-759-984-88	s	IC LM6361M
IC9	8-759-908-17	s	IC TL082CPS
IC10	8-759-908-17	s	IC TL082CPS
IC11	8-759-009-07	s	IC MC14053BF
IC12	8-759-948-01	s	IC 74F04SJ
IC13	8-759-200-79	s	IC TC4049BF
IC14	8-759-141-65	s	IC UPD6951C
IC15	8-759-926-28	s	IC SN74HC174NS
IC16	8-752-322-72	s	IC CXK1202S
IC17	8-752-322-72	s	IC CXK1202S
IC18	8-752-322-72	s	IC CXK1202S
IC19	8-752-322-72	s	IC CXK1202S
IC20	8-752-322-72	s	IC CXK1202S
IC21	8-759-009-12	s	IC MC14071BF
IC22	8-759-982-21	s	IC RC78L05A
IC23	8-759-009-05	s	IC MC14051BF
IC24	8-759-009-05	s	IC MC14051BF
IC25	8-759-009-05	s	IC MC14051BF
IC26	8-759-009-05	s	IC MC14051BF
IC27	8-759-009-05	s	IC MC14051BF
IC28	8-759-009-05	s	IC MC14051BF
IC29	8-759-009-05	s	IC MC14051BF
IC30	8-759-009-05	s	IC MC14051BF
IC31	8-759-009-05	s	IC MC14051BF
IC32	8-759-009-05	s	IC MC14051BF
IC33	8-759-984-88	s	IC LM6361M
IC34	8-759-984-88	s	IC LM6361M
IC35	8-759-009-07	s	IC MC14053BF
IC36	8-759-982-21	s	IC RC78L05A
IC37	8-759-982-20	s	IC RC78L02A
IC38	8-759-984-88	s	IC LM6361M
IC39	8-759-702-07	s	IC NJM13700M
IC40	8-759-906-54	s	IC TL064CNS
IC301	8-759-702-07	s	IC NJM13700M
IC302	8-759-602-06	s	IC M5109P
IC303	8-759-602-06	s	IC M5109P
IC304	8-759-908-17	s	IC TL082CPS
IC305	8-759-009-07	s	IC MC14053BF

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
IC306	8-759-702-07	s	IC NJM13700M
IC307	8-759-602-06	s	IC M5109P
IC308	8-759-702-07	s	IC NJM13700M
IC309	8-759-602-06	s	IC M5109P
IC310	8-759-982-44	s	IC RC79L05A
IC311	8-759-908-17	s	IC TL082CPS
IC500	8-759-209-20	s	IC TC4584BF
IC501	8-759-009-07	s	IC MC14053BF
IC502	8-759-908-17	s	IC TL082CPS
IC503	8-759-908-17	s	IC TL082CPS
IC504	8-759-908-17	s	IC TL082CPS
IC505	8-759-602-06	s	IC M5109P
IC506	8-759-602-06	s	IC M5109P
IC507	8-759-906-59	s	IC CX22017
IC601	8-759-014-96	s	IC MC1496P
IC602	8-759-014-96	s	IC MC1496P
IC603	8-759-908-17	s	IC TL082CPS
IC604	8-759-908-17	s	IC TL082CPS
IC605	8-759-908-17	s	IC TL082CPS
IC609	8-759-984-88	s	IC LM6361M
IC700	8-759-114-06	s	IC UPC814G2-1
IC701	8-759-209-20	s	IC TC4584BF
IC702	8-749-900-77	s	IC BX-1333L
IC703	8-759-906-59	s	IC CX22017
IC704	8-759-982-21	s	IC RC78L05A
IC705	8-759-982-44	s	IC RC79L05A
IC801	8-741-104-00	s	IC BX1040
IC802	8-759-101-12	s	IC UPC311G2
IC803	8-759-908-39	s	IC CX7998
IC804	8-741-129-10	s	IC BX-1291
IC805	8-757-930-11	s	IC CX7930A
IC806	8-759-206-28	s	IC TC74HC123F
IC807	8-759-201-60	s	IC TC40H002F
IC808	8-759-948-28	s	IC SM5828P
IC809	8-759-948-28	s	IC SM5828P
IC810	8-759-200-79	s	IC TC4049BF
IC811	8-741-133-91	s	IC BX-1339A
IC812	8-741-133-91	s	IC BX-1339A
IC813	8-759-011-65	s	IC MC74HC4053F
IC814	8-759-045-57	s	IC MC14557BCP
IC815	8-759-008-45	s	IC MC74HC4538F
IC816	8-759-201-53	s	IC TC40H000F
IC817	8-759-008-79	s	IC MC14011BF
IC818	8-759-200-79	s	IC TC4049BF
IC819	8-759-205-37	s	IC SN74HC574NS
IC820	8-759-205-37	s	IC SN74HC574NS
IC821	8-759-008-45	s	IC MC74HC4538F
IC822	8-759-982-31	s	IC RC78M05FA
JR1	1-216-295-00	s	METAL, CHIP 0-OHM
JR2	1-216-295-00	s	METAL, CHIP 0-OHM
JR3	1-216-295-00	s	METAL, CHIP 0-OHM
JR4	1-216-295-00	s	METAL, CHIP 0-OHM
JR5	1-216-295-00	s	METAL, CHIP 0-OHM
JR7	1-216-295-00	s	METAL, CHIP 0-OHM
JR8	1-216-295-00	s	METAL, CHIP 0-OHM
JR9	1-216-295-00	s	METAL, CHIP 0-OHM
JR700	1-216-295-00	s	METAL, CHIP 0-OHM
JR801	1-216-295-00	s	METAL, CHIP 0-OHM

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Ref. No. or Q'ty	Part No.	SP	Description
JR802	1-216-295-00	s	METAL, CHIP 0-OHM
JR803	1-216-295-00	s	METAL, CHIP 0-OHM
JR804	1-216-295-00	s	METAL, CHIP 0-OHM
JR805	1-216-295-00	s	METAL, CHIP 0-OHM
JR806	1-216-295-00	s	METAL, CHIP 0-OHM
JR807	1-216-295-00	s	METAL, CHIP 0-OHM
JR808	1-216-295-00	s	METAL, CHIP 0-OHM
JR809	1-216-295-00	s	METAL, CHIP 0-OHM
JR811	1-216-295-00	s	METAL, CHIP 0-OHM
JR812	1-216-295-00	s	METAL, CHIP 0-OHM
JR813	1-216-295-00	s	METAL, CHIP 0-OHM
JR814	1-216-295-00	s	METAL, CHIP 0-OHM
JR815	1-216-295-00	s	METAL, CHIP 0-OHM
L500	1-410-711-31	s	INDUCTOR CHIP 33UH
L502	1-410-714-31	s	INDUCTOR CHIP 56UH
L701	1-410-711-31	s	INDUCTOR CHIP 33UH
Q1	8-729-100-66	s	TRANSISTOR 2SC1623
Q2	8-729-112-65	s	TRANSISTOR 2SA1462
Q3	8-729-216-22	s	TRANSISTOR 2SA1162
Q4	8-729-100-66	s	TRANSISTOR 2SC1623
Q5	8-729-112-65	s	TRANSISTOR 2SA1462
Q6	8-729-216-22	s	TRANSISTOR 2SA1162
Q7	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q8	8-729-216-22	s	TRANSISTOR 2SA1162
Q9	8-729-100-66	s	TRANSISTOR 2SC1623
Q10	8-729-100-66	s	TRANSISTOR 2SC1623
Q11	8-729-216-22	s	TRANSISTOR 2SA1162
Q12	8-729-216-22	s	TRANSISTOR 2SA1162
Q13	8-729-100-66	s	TRANSISTOR 2SC1623
Q14	8-729-112-65	s	TRANSISTOR 2SA1462
Q15	8-729-112-65	s	TRANSISTOR 2SA1462
Q16	8-729-112-65	s	TRANSISTOR 2SA1462
Q17	8-729-112-65	s	TRANSISTOR 2SA1462
Q18	8-729-175-73	s	TRANSISTOR 2SC2757
Q19	8-729-175-73	s	TRANSISTOR 2SC2757
Q20	8-729-175-73	s	TRANSISTOR 2SC2757
Q21	8-729-100-66	s	TRANSISTOR 2SC1623
Q22	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q23	8-729-216-22	s	TRANSISTOR 2SA1162
Q24	8-729-216-22	s	TRANSISTOR 2SA1162
Q25	8-729-100-66	s	TRANSISTOR 2SC1623
Q26	8-729-100-66	s	TRANSISTOR 2SC1623
Q27	8-729-100-66	s	TRANSISTOR 2SC1623
Q28	8-729-100-66	s	TRANSISTOR 2SC1623
Q29	8-729-216-22	s	TRANSISTOR 2SA1162
Q30	8-729-216-22	s	TRANSISTOR 2SA1162
Q31	8-729-100-66	s	TRANSISTOR 2SC1623
Q32	8-729-100-66	s	TRANSISTOR 2SC1623
Q33	8-729-100-66	s	TRANSISTOR 2SC1623
Q34	8-729-100-66	s	TRANSISTOR 2SC1623
Q35	8-729-216-22	s	TRANSISTOR 2SA1162
Q36	8-729-100-66	s	TRANSISTOR 2SC1623
Q37	8-729-216-22	s	TRANSISTOR 2SA1162
Q38	8-729-100-66	s	TRANSISTOR 2SC1623
Q39	8-729-216-22	s	TRANSISTOR 2SA1162
Q40	8-729-100-66	s	TRANSISTOR 2SC1623
Q41	8-729-216-22	s	TRANSISTOR 2SA1162
Q42	8-729-100-66	s	TRANSISTOR 2SC1623

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Ref. No. or Q'ty	Part No.	SP	Description
Q43	8-729-216-22	s	TRANSISTOR 2SA1162
Q44	8-729-100-66	s	TRANSISTOR 2SC1623
Q45	8-729-216-22	s	TRANSISTOR 2SA1162
Q46	8-729-100-66	s	TRANSISTOR 2SC1623
Q47	8-729-216-22	s	TRANSISTOR 2SA1162
Q48	8-729-100-66	s	TRANSISTOR 2SC1623
Q49	8-729-100-66	s	TRANSISTOR 2SC1623
Q50	8-729-100-66	s	TRANSISTOR 2SC1623
Q51	8-729-100-66	s	TRANSISTOR 2SC1623
Q52	8-729-100-66	s	TRANSISTOR 2SC1623
Q53	8-729-100-66	s	TRANSISTOR 2SC1623
Q54	8-729-100-66	s	TRANSISTOR 2SC1623
Q55	8-729-216-22	s	TRANSISTOR 2SA1162
Q56	8-729-100-66	s	TRANSISTOR 2SC1623
Q57	8-729-100-66	s	TRANSISTOR 2SC1623
Q58	8-729-100-66	s	TRANSISTOR 2SC1623
Q59	8-729-216-22	s	TRANSISTOR 2SA1162
Q60	8-729-100-66	s	TRANSISTOR 2SC1623
Q61	8-729-100-66	s	TRANSISTOR 2SC1623
Q62	8-729-100-66	s	TRANSISTOR 2SC1623
Q63	8-729-216-22	s	TRANSISTOR 2SA1162
Q64	8-729-100-66	s	TRANSISTOR 2SC1623
Q65	8-729-216-22	s	TRANSISTOR 2SA1162
Q66	8-729-100-66	s	TRANSISTOR 2SC1623
Q67	8-729-100-66	s	TRANSISTOR 2SC1623
Q68	8-729-100-66	s	TRANSISTOR 2SC1623
Q69	8-729-216-22	s	TRANSISTOR 2SA1162
Q70	8-729-100-66	s	TRANSISTOR 2SC1623
Q71	8-729-100-66	s	TRANSISTOR 2SC1623
Q72	8-729-100-66	s	TRANSISTOR 2SC1623
Q73	8-729-216-22	s	TRANSISTOR 2SA1162
Q74	8-729-100-66	s	TRANSISTOR 2SC1623
Q75	8-729-100-66	s	TRANSISTOR 2SC1623
Q76	8-729-100-66	s	TRANSISTOR 2SC1623
Q77	8-729-100-66	s	TRANSISTOR 2SC1623
Q78	8-729-100-66	s	TRANSISTOR 2SC1623
Q79	8-729-216-22	s	TRANSISTOR 2SA1162
Q80	8-729-216-22	s	TRANSISTOR 2SA1162
Q81	8-729-216-22	s	TRANSISTOR 2SA1162
Q82	8-729-100-66	s	TRANSISTOR 2SC1623
Q83	8-729-100-66	s	TRANSISTOR 2SC1623
Q84	8-729-100-66	s	TRANSISTOR 2SC1623
Q85	8-729-216-22	s	TRANSISTOR 2SA1162
Q86	8-729-216-22	s	TRANSISTOR 2SA1162
Q87	8-729-100-66	s	TRANSISTOR 2SC1623
Q88	8-729-100-66	s	TRANSISTOR 2SC1623
Q89	8-729-216-22	s	TRANSISTOR 2SA1162
Q90	8-729-216-22	s	TRANSISTOR 2SA1162
Q91	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q92	8-729-216-22	s	TRANSISTOR 2SA1162
Q93	8-729-100-66	s	TRANSISTOR 2SC1623
Q94	8-729-100-66	s	TRANSISTOR 2SC1623
Q95	8-729-216-22	s	TRANSISTOR 2SA1162
Q96	8-729-216-22	s	TRANSISTOR 2SA1162
Q97	8-729-100-66	s	TRANSISTOR 2SC1623
Q98	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q99	8-729-216-22	s	TRANSISTOR 2SA1162
Q100	8-729-112-65	s	TRANSISTOR 2SA1462
Q101	8-729-112-65	s	TRANSISTOR 2SA1462

(SD-20 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q102	8-729-175-73	s	TRANSISTOR 2SC2757
Q103	8-729-175-73	s	TRANSISTOR 2SC2757
Q105	8-729-100-66	s	TRANSISTOR 2SC1623
Q301	8-729-100-66	s	TRANSISTOR 2SC1623
Q302	8-729-112-65	s	TRANSISTOR 2SA1462
Q303	8-729-216-22	s	TRANSISTOR 2SA1162
Q304	8-729-100-66	s	TRANSISTOR 2SC1623
Q305	8-729-112-65	s	TRANSISTOR 2SA1462
Q306	8-729-216-22	s	TRANSISTOR 2SA1162
Q307	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q308	8-729-216-22	s	TRANSISTOR 2SA1162
Q309	8-729-100-66	s	TRANSISTOR 2SC1623
Q310	8-729-216-22	s	TRANSISTOR 2SA1162
Q311	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q312	8-729-100-66	s	TRANSISTOR 2SC1623
Q313	8-729-100-66	s	TRANSISTOR 2SC1623
Q314	8-729-112-65	s	TRANSISTOR 2SA1462
Q315	8-729-216-22	s	TRANSISTOR 2SA1162
Q316	8-729-100-66	s	TRANSISTOR 2SC1623
Q317	8-729-112-65	s	TRANSISTOR 2SA1462
Q318	8-729-216-22	s	TRANSISTOR 2SA1162
Q319	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q320	8-729-216-22	s	TRANSISTOR 2SA1162
Q321	8-729-100-66	s	TRANSISTOR 2SC1623
Q322	8-729-100-66	s	TRANSISTOR 2SC1623
Q323	8-729-112-65	s	TRANSISTOR 2SA1462
Q324	8-729-216-22	s	TRANSISTOR 2SA1162
Q325	8-729-100-66	s	TRANSISTOR 2SC1623
Q326	8-729-112-65	s	TRANSISTOR 2SA1462
Q327	8-729-216-22	s	TRANSISTOR 2SA1162
Q328	8-729-116-64	s	TRANSISTOR 2SK508-K51
Q329	8-729-216-22	s	TRANSISTOR 2SA1162
Q330	8-729-100-66	s	TRANSISTOR 2SC1623
Q331	8-729-216-22	s	TRANSISTOR 2SA1162
Q500	8-729-100-66	s	TRANSISTOR 2SC1623
Q501	8-729-100-66	s	TRANSISTOR 2SC1623
Q502	8-729-216-22	s	TRANSISTOR 2SA1162
Q503	8-729-216-22	s	TRANSISTOR 2SA1162
Q504	8-729-100-66	s	TRANSISTOR 2SC1623
Q506	8-729-216-22	s	TRANSISTOR 2SA1162
Q507	8-729-216-22	s	TRANSISTOR 2SA1162
Q508	8-729-216-22	s	TRANSISTOR 2SA1162
Q509	8-729-216-22	s	TRANSISTOR 2SA1162
Q510	8-729-100-66	s	TRANSISTOR 2SC1623
Q512	8-729-100-66	s	TRANSISTOR 2SC1623
Q513	8-729-100-66	s	TRANSISTOR 2SC1623
Q514	8-729-175-73	s	TRANSISTOR 2SC2757
Q515	8-729-175-73	s	TRANSISTOR 2SC2757
Q516	8-729-175-73	s	TRANSISTOR 2SC2757
Q517	8-729-100-66	s	TRANSISTOR 2SC1623
Q518	8-729-175-73	s	TRANSISTOR 2SC2757
Q519	8-729-175-73	s	TRANSISTOR 2SC2757
Q520	8-729-175-73	s	TRANSISTOR 2SC2757
Q521	8-729-100-66	s	TRANSISTOR 2SC1623
Q522	8-729-100-66	s	TRANSISTOR 2SC1623
Q523	8-729-175-73	s	TRANSISTOR 2SC2757
Q524	8-729-100-66	s	TRANSISTOR 2SC1623
Q525	8-729-175-73	s	TRANSISTOR 2SC2757
Q526	8-729-100-66	s	TRANSISTOR 2SC1623

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
Q527	8-729-216-22	s	TRANSISTOR 2SA1162
Q528	8-729-100-66	s	TRANSISTOR 2SC1623
Q529	8-729-216-22	s	TRANSISTOR 2SA1162
Q530	8-729-216-22	s	TRANSISTOR 2SA1162
Q531	8-729-216-22	s	TRANSISTOR 2SA1162
Q532	8-729-100-66	s	TRANSISTOR 2SC1623
Q533	8-729-100-66	s	TRANSISTOR 2SC1623
Q534	8-729-100-66	s	TRANSISTOR 2SC1623
Q535	8-729-100-66	s	TRANSISTOR 2SC1623
Q536	8-729-100-66	s	TRANSISTOR 2SC1623
Q537	8-729-100-66	s	TRANSISTOR 2SC1623
Q538	8-729-175-73	s	TRANSISTOR 2SC2757
Q539	8-729-175-73	s	TRANSISTOR 2SC2757
Q540	8-729-175-73	s	TRANSISTOR 2SC2757
Q541	8-729-216-22	s	TRANSISTOR 2SA1162
Q542	8-729-216-22	s	TRANSISTOR 2SA1162
Q543	8-729-100-66	s	TRANSISTOR 2SC1623
Q544	8-729-216-22	s	TRANSISTOR 2SA1162
Q545	8-729-100-66	s	TRANSISTOR 2SC1623
Q546	8-729-100-66	s	TRANSISTOR 2SC1623
Q601	8-729-100-66	s	TRANSISTOR 2SC1623
Q602	8-729-100-66	s	TRANSISTOR 2SC1623
Q603	8-729-100-66	s	TRANSISTOR 2SC1623
Q604	8-729-100-66	s	TRANSISTOR 2SC1623
Q605	8-729-100-66	s	TRANSISTOR 2SC1623
Q606	8-729-100-66	s	TRANSISTOR 2SC1623
Q607	8-729-100-66	s	TRANSISTOR 2SC1623
Q608	8-729-100-66	s	TRANSISTOR 2SC1623
Q609	8-729-100-66	s	TRANSISTOR 2SC1623
Q610	8-729-100-66	s	TRANSISTOR 2SC1623
Q611	8-729-216-22	s	TRANSISTOR 2SA1162
Q612	8-729-100-66	s	TRANSISTOR 2SC1623
Q613	8-729-216-22	s	TRANSISTOR 2SA1162
Q617	8-729-216-22	s	TRANSISTOR 2SA1162
Q618	8-729-216-22	s	TRANSISTOR 2SA1162
Q619	8-729-216-22	s	TRANSISTOR 2SA1162
Q620	8-729-216-22	s	TRANSISTOR 2SA1162
Q621	8-729-216-22	s	TRANSISTOR 2SA1162
Q622	8-729-216-22	s	TRANSISTOR 2SA1162
Q630	8-729-100-66	s	TRANSISTOR 2SC1623
Q631	8-729-100-66	s	TRANSISTOR 2SC1623
Q632	8-729-100-66	s	TRANSISTOR 2SC1623
Q633	8-729-216-22	s	TRANSISTOR 2SA1162
Q700	8-729-100-66	s	TRANSISTOR 2SC1623
Q701	8-729-216-22	s	TRANSISTOR 2SA1162
Q702	8-729-100-66	s	TRANSISTOR 2SC1623
Q703	8-729-100-66	s	TRANSISTOR 2SC1623
Q704	8-729-216-22	s	TRANSISTOR 2SA1162
Q705	8-729-100-66	s	TRANSISTOR 2SC1623
Q706	8-729-175-73	s	TRANSISTOR 2SC2757
Q707	8-729-100-66	s	TRANSISTOR 2SC1623
Q708	8-729-175-73	s	TRANSISTOR 2SC2757
Q709	8-729-100-66	s	TRANSISTOR 2SC1623
Q710	8-729-216-22	s	TRANSISTOR 2SA1162
Q711	8-729-216-22	s	TRANSISTOR 2SA1162
Q712	8-729-175-73	s	TRANSISTOR 2SC2757
Q713	8-729-100-66	s	TRANSISTOR 2SC1623
Q714	8-729-216-22	s	TRANSISTOR 2SA1162
Q715	8-729-100-66	s	TRANSISTOR 2SC1623

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Ref. No. or Q'ty	Part No.	SP	Description
Q716	8-729-216-22	s	TRANSISTOR 2SA1162
Q717	8-729-216-22	s	TRANSISTOR 2SA1162
Q718	8-729-100-66	s	TRANSISTOR 2SC1623
Q719	8-729-216-22	s	TRANSISTOR 2SA1162
Q720	8-729-100-66	s	TRANSISTOR 2SC1623
Q721	8-729-175-73	s	TRANSISTOR 2SC2757
Q722	8-729-175-73	s	TRANSISTOR 2SC2757
Q723	8-729-175-73	s	TRANSISTOR 2SC2757
Q724	8-729-175-73	s	TRANSISTOR 2SC2757
Q725	8-729-175-73	s	TRANSISTOR 2SC2757
Q726	8-729-100-66	s	TRANSISTOR 2SC1623
Q727	8-729-216-22	s	TRANSISTOR 2SA1162
Q728	8-729-100-66	s	TRANSISTOR 2SC1623
Q729	8-729-216-22	s	TRANSISTOR 2SA1162
Q730	8-729-100-66	s	TRANSISTOR 2SC1623
Q801	8-729-100-66	s	TRANSISTOR 2SC1623
Q802	8-729-109-43	s	TRANSISTOR 2SK94-X3
Q803	8-729-100-66	s	TRANSISTOR 2SC1623
Q804	8-729-100-66	s	TRANSISTOR 2SC1623
Q805	8-729-100-66	s	TRANSISTOR 2SC1623
Q806	8-729-100-66	s	TRANSISTOR 2SC1623
Q807	8-729-100-66	s	TRANSISTOR 2SC1623
Q808	8-729-100-66	s	TRANSISTOR 2SC1623
Q809	8-729-100-66	s	TRANSISTOR 2SC1623
Q810	8-729-216-22	s	TRANSISTOR 2SA1162
Q811	8-729-109-43	s	TRANSISTOR 2SK94-X3
Q812	8-729-216-22	s	TRANSISTOR 2SA1162
Q813	8-729-100-66	s	TRANSISTOR 2SC1623
Q815	8-729-175-73	s	TRANSISTOR 2SC2757
Q816	8-729-112-65	s	TRANSISTOR 2SA1462
Q817	8-729-175-73	s	TRANSISTOR 2SC2757
Q818	8-729-112-65	s	TRANSISTOR 2SA1462
R29	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R549	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R562	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R622	1-214-503-00	s	METAL 3.32K 0.50% 1/4W
R623	1-214-499-00	s	METAL 1.62K 0.50% 1/4W
R624	1-214-504-00	s	METAL 9.09K 0.50% 1/4W
R763	1-216-309-00	s	METAL 5.6 5% 1/10W
R764	1-216-309-00	s	METAL 5.6 5% 1/10W
R802	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R808	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R809	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
RB1	1-235-948-11	s	NETWORK, RESISTOR
RB2	1-235-948-11	s	NETWORK, RESISTOR
RB3	1-235-948-11	s	NETWORK, RESISTOR
RB4	1-235-948-11	s	NETWORK, RESISTOR
RB5	1-235-948-11	s	NETWORK, RESISTOR
RB6	1-235-948-11	s	NETWORK, RESISTOR
RV1	1-237-039-11	s	RES, ADJ, METAL 100K
RV2	1-237-033-11	s	RES, ADJ, METAL 1K
RV3	1-237-032-11	s	RES, ADJ, METAL 500
RV4	1-237-039-11	s	RES, ADJ, METAL 100K
RV5	1-237-037-11	s	RES, ADJ, METAL 20K
RV6	1-237-037-11	s	RES, ADJ, METAL 20K
RV7	1-237-032-11	s	RES, ADJ, METAL 500
RV8	1-237-032-11	s	RES, ADJ, METAL 500

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
RV9	1-237-037-11	s	RES, ADJ, METAL 20K
RV10	1-237-036-11	s	RES, ADJ, METAL 10K
RV11	1-237-038-11	s	RES, ADJ, METAL 50K
RV12	1-237-039-11	s	RES, ADJ, METAL 100K
RV13	1-237-036-11	s	RES, ADJ, METAL 10K
RV14	1-237-034-11	s	RES, ADJ, METAL 2K
RV15	1-237-037-11	s	RES, ADJ, METAL 20K
RV16	1-237-035-11	s	RES, ADJ, METAL 5K
RV17	1-237-034-11	s	RES, ADJ, METAL 2K
RV18	1-237-039-11	s	RES, ADJ, METAL 100K
RV19	1-237-034-11	s	RES, ADJ, METAL 2K
RV20	1-237-032-11	s	RES, ADJ, METAL 500
RV21	1-237-035-11	s	RES, ADJ, METAL 5K
RV22	1-237-037-11	s	RES, ADJ, METAL 20K
RV23	1-237-032-11	s	RES, ADJ, METAL 500
RV24	1-237-033-11	s	RES, ADJ, METAL 1K
RV25	1-237-037-11	s	RES, ADJ, METAL 20K
RV301	1-237-033-11	s	RES, ADJ, METAL 1K
RV302	1-237-032-11	s	RES, ADJ, METAL 500
RV303	1-237-032-11	s	RES, ADJ, METAL 500
RV304	1-237-032-11	s	RES, ADJ, METAL 500
RV305	1-237-033-11	s	RES, ADJ, METAL 1K
RV306	1-237-033-11	s	RES, ADJ, METAL 1K
RV307	1-237-500-21	s	RES, ADJ, METAL 1K
RV308	1-237-032-11	s	RES, ADJ, METAL 500
RV309	1-237-033-11	s	RES, ADJ, METAL 1K
RV310	1-237-032-11	s	RES, ADJ, METAL 500
RV311	1-237-033-11	s	RES, ADJ, METAL 1K
RV312	1-237-032-11	s	RES, ADJ, METAL 500
RV313	1-237-032-11	s	RES, ADJ, METAL 500
RV314	1-237-032-11	s	RES, ADJ, METAL 500
RV500	1-237-034-11	s	RES, ADJ, METAL 2K
RV501	1-237-036-11	s	RES, ADJ, METAL 10K
RV502	1-237-037-11	s	RES, ADJ, METAL 20K
RV503	1-237-036-11	s	RES, ADJ, METAL 10K
RV504	1-237-036-11	s	RES, ADJ, METAL 10K
RV505	1-237-036-11	s	RES, ADJ, METAL 10K
RV506	1-237-037-11	s	RES, ADJ, METAL 20K
RV507	1-237-033-11	s	RES, ADJ, METAL 1K
RV508	1-237-035-11	s	RES, ADJ, METAL 5K
RV509	1-237-033-11	s	RES, ADJ, METAL 1K
RV510	1-237-035-11	s	RES, ADJ, METAL 5K
RV511	1-237-033-11	s	RES, ADJ, METAL 1K
RV512	1-237-033-11	s	RES, ADJ, METAL 1K
RV513	1-237-035-11	s	RES, ADJ, METAL 5K
RV514	1-237-035-11	s	RES, ADJ, METAL 5K
RV515	1-237-032-11	s	RES, ADJ, METAL 500
RV516	1-237-032-11	s	RES, ADJ, METAL 500
RV517	1-237-032-11	s	RES, ADJ, METAL 500
RV601	1-237-035-11	s	RES, ADJ, METAL 5K
RV602	1-237-035-11	s	RES, ADJ, METAL 5K
RV603	1-237-035-11	s	RES, ADJ, METAL 5K
RV604	1-237-035-11	s	RES, ADJ, METAL 5K
RV609	1-237-034-11	s	RES, ADJ, METAL 2K
RV700	1-237-034-11	s	RES, ADJ, METAL 2K
RV701	1-237-035-11	s	RES, ADJ, METAL 5K
RV702	1-237-037-11	s	RES, ADJ, METAL 20K
RV703	1-237-037-11	s	RES, ADJ, METAL 20K
RV704	1-237-034-11	s	RES, ADJ, METAL 2K

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Ref. No. or Q'ty	Part No.	SP	Description
RV705	1-237-032-11	s	RES, ADJ, METAL 500
RV706	1-237-035-11	s	RES, ADJ, METAL 5K
RV707	1-237-035-11	s	RES, ADJ, METAL 5K
RV708	1-237-032-11	s	RES, ADJ, METAL 500
RV709	1-237-514-21	s	RES, ADJ, METAL 500
RV801	1-237-035-11	s	RES, ADJ, METAL 5K
RV802	1-237-503-21	s	RES, ADJ, METAL 10K
RV803	1-237-503-21	s	RES, ADJ, METAL 10K
RV804	1-237-036-11	s	RES, ADJ, METAL 10K
RV805	1-237-037-11	s	RES, ADJ, METAL 20K
RV806	1-237-035-11	s	RES, ADJ, METAL 5K
RV807	1-237-037-11	s	RES, ADJ, METAL 20K
RV808	1-237-037-11	s	RES, ADJ, METAL 20K
RV809	1-237-501-21	s	RES, ADJ, METAL 2K
RV810	1-230-997-11	s	RES, VAR, CARBON 20K/20K
RV811	1-237-037-11	s	RES, ADJ, METAL 20K
RV812	1-237-036-11	s	RES, ADJ, METAL 10K
S500	1-570-602-11	s	SWITCH, DIP 2-CKT
S601	1-516-925-21	s	SWITCH, DIP 8-CKT
S602	1-516-925-21	s	SWITCH, DIP 8-CKT
S603	1-516-924-21	s	SWITCH, DIP
S604	1-554-399-00	s	SWITCH, TOGGLE
S801	1-554-399-00	s	SWITCH, TOGGLE
S802	1-570-373-12	s	SWITCH, SLIDE
S803	1-570-086-11	s	SWITCH, SLIDE
S804	1-553-252-00	s	SWITCH, DIGITAL
S805	1-554-027-00	s	SWITCH, DIGITAL
S810	1-554-399-00	s	SWITCH, TOGGLE
TH800	1-800-071-XX	s	TH DIRECT-HEATING DISK S-300
TH801	1-800-071-XX	s	TH DIRECT-HEATING DISK S-300
VC0801	1-567-112-00	s	OSCILLATOR, CRYSTAL
VC0802	1-567-086-00	s	OSCILLATOR, CRYSTAL

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

SY-138 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6259-371-A	o	MOUNTED CIRCUIT BOARD, SY-138 (P)
1pc	2-139-140-01	o	PLATE, SHIELD
2pcs	2-182-909-01	o	LEVER, PC BOARD
2pcs	7-626-320-11	o	PIN, SPRING 3X8
1pc	7-682-947-01	s	SCREW +PSW 3X6
6pcs	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
C1	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C2	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C3	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C4	1-125-447-11	s	DOUBLE LAYERS 1FARAD 5.5V
C5	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C6	1-126-157-11	s	ELECT 10uF 20% 16V
C7	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C10	1-126-157-11	s	ELECT 10uF 20% 16V
C11	1-126-157-11	s	ELECT 10uF 20% 16V
C16	1-126-157-11	s	ELECT 10uF 20% 16V
C17	1-126-157-11	s	ELECT 10uF 20% 16V
C20	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C21	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C22	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C23	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C24	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C25	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C26	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C27	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C28	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C29	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C30	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C31	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C32	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C33	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C34	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C35	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C36	1-124-478-11	s	ELECT 100uF 20% 25V
C37	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C38	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C39	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C40	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C41	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C42	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C43	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C50	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C52	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C53	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C54	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C55	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C56	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C57	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C58	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C59	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C61	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C62	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C63	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C65	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C67	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C69	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C70	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C71	1-162-638-11	s	CERAMIC, CHIP 1uF 16V

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Ref. No. or Q'ty	Part No.	SP	Description
C73	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C74	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C76	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C78	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C80	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C82	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C86	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C89	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C93	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C95	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C97	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C99	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C101	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C103	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C105	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C107	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C109	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C111	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C113	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C114	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C115	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C116	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C117	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C118	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C119	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C120	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C121	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C122	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C123	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C124	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C125	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C126	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C127	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C128	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C129	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C130	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C131	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C132	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C133	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C134	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C135	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C136	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C137	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C138	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C139	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C140	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C141	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C142	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C143	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C144	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C145	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C146	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C156	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C157	1-124-234-00	s	ELECT 22uF 20% 16V
C158	1-126-157-11	s	ELECT 10uF 20% 16V
C159	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C160	1-124-234-00	s	ELECT 22uF 20% 16V
C161	1-126-157-11	s	ELECT 10uF 20% 16V
C162	1-164-232-11	s	CERAMIC 0.01uF 10% 50V

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
C163	1-124-234-00	s	ELECT 22uF 20% 16V
C164	1-126-157-11	s	ELECT 10uF 20% 16V
C165	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C167	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C168	1-124-234-00	s	ELECT 22uF 20% 16V
C169	1-126-157-11	s	ELECT 10uF 20% 16V
C170	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
CN1	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN2	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN3	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN4	1-506-694-11	o	HEADER 26P
D1	8-719-100-05	s	DIODE 1S2837
D5	8-719-100-05	s	DIODE 1S2837
D6	8-719-100-05	s	DIODE 1S2837
D7	8-719-105-32	s	DIODE RD2.7M-B2
D8	8-719-100-05	s	DIODE 1S2837
D9	8-719-105-32	s	DIODE RD2.7M-B2
D10	8-719-100-05	s	DIODE 1S2837
D11	8-719-105-32	s	DIODE RD2.7M-B2
D12	8-719-100-05	s	DIODE 1S2837
D13	8-719-105-32	s	DIODE RD2.7M-B2
D14	8-719-100-05	s	DIODE 1S2837
D15	8-719-105-73	s	DIODE RD4.7M-B2
D16	8-719-100-05	s	DIODE 1S2837
D17	8-719-100-05	s	DIODE 1S2837
D18	8-719-100-05	s	DIODE 1S2837
D19	8-719-100-05	s	DIODE 1S2837
D20	8-719-100-05	s	DIODE 1S2837
D21	8-719-100-05	s	DIODE 1S2837
D22	8-719-100-05	s	DIODE 1S2837
D23	8-719-100-05	s	DIODE 1S2837
D24	8-719-100-05	s	DIODE 1S2837
D25	8-719-100-05	s	DIODE 1S2837
D26	8-719-100-05	s	DIODE 1S2837
D27	8-719-100-05	s	DIODE 1S2837
D28	8-719-100-05	s	DIODE 1S2837
IC1	8-759-926-67	s	IC SN74HC374NS
IC3	8-759-926-11	s	IC SN74HC138NS
IC4	8-759-926-48	s	IC SN74HC244NS
IC5	8-759-926-48	s	IC SN74HC244NS
IC6	8-759-303-46	s	IC HM6264LFP-15SL
IC7	8-759-204-94	s	IC TC74HC00F
IC8	8-759-990-64	s	IC MSM80C31FVGS-V1K
IC9	8-759-232-94	s	IC TC74HC245AF
IC10	8-759-926-48	s	IC SN74HC244NS
IC11	8-759-926-48	s	IC SN74HC244NS
IC12	8-759-926-48	s	IC SN74HC244NS
IC13	8-759-926-67	s	IC SN74HC374NS
IC14	8-759-747-55	s	IC MBM27C256A-25-X
IC15	8-759-747-55	s	IC MBM27C256A-25-X
IC17	8-759-926-11	s	IC SN74HC138NS
IC18	8-759-926-42	s	IC SN74HC238NS
IC19	8-759-926-42	s	IC SN74HC238NS
IC20	8-759-926-67	s	IC SN74HC374NS
IC21	8-759-926-67	s	IC SN74HC374NS
IC22	8-759-926-67	s	IC SN74HC374NS
IC23	8-759-926-67	s	IC SN74HC374NS
IC24	8-759-926-67	s	IC SN74HC374NS

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Ref. No. or Q'ty	Part No.	SP	Description
IC25	8-759-926-67	s	IC SN74HC374NS
IC26	8-759-926-67	s	IC SN74HC374NS
IC27	8-759-926-67	s	IC SN74HC374NS
IC28	8-759-747-54	s	IC UPD8749HC
IC29	8-759-926-67	s	IC SN74HC374NS
IC30	8-759-926-67	s	IC SN74HC374NS
IC31	8-759-926-67	s	IC SN74HC374NS
IC32	8-759-711-15	s	IC NJU8101M
IC33	8-759-926-67	s	IC SN74HC374NS
IC34	8-759-926-67	s	IC SN74HC374NS
IC35	8-759-926-67	s	IC SN74HC374NS
IC36	8-759-711-15	s	IC NJU8101M
IC37	8-759-926-67	s	IC SN74HC374NS
IC38	8-759-747-54	s	IC UPD8749HC
IC39	8-759-926-67	s	IC SN74HC374NS
IC40	8-759-926-67	s	IC SN74HC374NS
IC41	8-759-926-67	s	IC SN74HC374NS
IC42	8-759-711-15	s	IC NJU8101M
IC43	8-759-926-67	s	IC SN74HC374NS
IC44	8-759-747-54	s	IC UPD8749HC
IC45	8-759-926-67	s	IC SN74HC374NS
IC46	8-759-926-67	s	IC SN74HC374NS
IC47	8-759-926-67	s	IC SN74HC374NS
IC48	8-759-711-15	s	IC NJU8101M
IC49	8-759-009-20	s	IC MC14082BF
IC50	8-759-926-42	s	IC SN74HC238NS
IC52	8-759-009-05	s	IC MC14051BF
IC53	8-759-926-67	s	IC SN74HC374NS
IC54	8-759-926-67	s	IC SN74HC374NS
IC55	8-759-009-05	s	IC MC14051BF
IC56	8-759-009-05	s	IC MC14051BF
IC57	8-759-926-48	s	IC SN74HC244NS
IC58	8-759-926-48	s	IC SN74HC244NS
IC59	8-759-926-48	s	IC SN74HC244NS
IC60	8-759-926-48	s	IC SN74HC244NS
IC61	8-759-926-11	s	IC SN74HC138NS
IC62	8-759-926-67	s	IC SN74HC374NS
IC63	8-759-926-67	s	IC SN74HC374NS
IC64	8-759-926-11	s	IC SN74HC138NS
IC65	8-759-711-15	s	IC NJU8101M
IC66	8-759-926-67	s	IC SN74HC374NS
IC67	8-759-926-11	s	IC SN74HC138NS
IC68	8-759-926-67	s	IC SN74HC374NS
IC69	8-759-926-67	s	IC SN74HC374NS
IC70	8-759-926-67	s	IC SN74HC374NS
IC71	8-759-926-67	s	IC SN74HC374NS
IC74	8-759-926-67	s	IC SN74HC374NS
IC75	8-759-926-67	s	IC SN74HC374NS
IC76	8-759-906-54	s	IC TL064CNS
IC77	8-759-906-54	s	IC TL064CNS
IC78	8-759-906-54	s	IC TL064CNS
IC79	8-759-906-54	s	IC TL064CNS
IC80	8-759-906-54	s	IC TL064CNS
IC81	8-759-906-54	s	IC TL064CNS
IC82	8-759-926-48	s	IC SN74HC244NS
IC83	8-759-926-48	s	IC SN74HC244NS
IC84	8-759-926-48	s	IC SN74HC244NS
IC85	8-759-926-48	s	IC SN74HC244NS
IC86	8-759-009-05	s	IC MC14051BF

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
IC87	8-759-926-48	s	IC SN74HC244NS
IC88	8-759-926-67	s	IC SN74HC374NS
IC89	8-759-926-67	s	IC SN74HC374NS
IC90	8-759-747-54	s	IC UPD8749HC
IC91	8-759-926-11	s	IC SN74HC138NS
IC92	8-759-926-42	s	IC SN74HC238NS
IC93	8-759-926-48	s	IC SN74HC244NS
IC95	8-759-926-48	s	IC SN74HC244NS
IC96	8-759-926-48	s	IC SN74HC244NS
IC97	8-759-926-67	s	IC SN74HC374NS
IC98	8-759-926-67	s	IC SN74HC374NS
IC99	8-759-926-67	s	IC SN74HC374NS
IC100	8-759-926-67	s	IC SN74HC374NS
IC101	8-759-926-67	s	IC SN74HC374NS
IC102	8-759-926-67	s	IC SN74HC374NS
IC103	8-759-711-15	s	IC NJU8101M
IC104	8-759-711-15	s	IC NJU8101M
IC105	8-759-926-67	s	IC SN74HC374NS
IC106	8-759-926-67	s	IC SN74HC374NS
IC107	8-759-926-67	s	IC SN74HC374NS
IC108	8-759-926-67	s	IC SN74HC374NS
IC109	8-759-711-15	s	IC NJU8101M
IC110	8-759-711-15	s	IC NJU8101M
IC112	8-759-926-17	s	IC SN74HC153NS
IC113	8-759-926-11	s	IC SN74HC138NS
IC114	8-759-906-54	s	IC TL064CNS
IC115	8-759-906-54	s	IC TL064CNS
IC116	8-759-906-54	s	IC TL064CNS
IC117	8-759-926-67	s	IC SN74HC374NS
IC118	8-759-200-79	s	IC TC4049BF
IC127	8-759-925-85	s	IC SN74HC32NS
IC128	8-759-200-79	s	IC TC4049BF
IC129	8-759-803-70	s	IC SN74HC08NS
IC131	8-759-926-11	s	IC SN74HC138NS
IC133	8-759-906-54	s	IC TL064CNS
IC134	8-759-009-07	s	IC MC14053BF
IC135	8-759-906-54	s	IC TL064CNS
IC136	8-759-009-07	s	IC MC14053BF
IC137	8-759-906-54	s	IC TL064CNS
IC138	8-759-009-07	s	IC MC14053BF
IC139	8-759-906-54	s	IC TL064CNS
IC140	8-759-009-07	s	IC MC14053BF
IC141	8-759-205-08	s	IC TC74HC86F
IC142	8-759-926-42	s	IC SN74HC238NS
IC143	8-759-009-46	s	IC MC14528BF
IC144	8-759-009-46	s	IC MC14528BF
IC145	8-759-009-46	s	IC MC14528BF
IC146	8-759-009-46	s	IC MC14528BF
Q1	8-729-216-22	s	TRANSISTOR 2SA1162
Q2	8-729-216-22	s	TRANSISTOR 2SA1162
Q3	8-729-216-22	s	TRANSISTOR 2SA1162
Q9	8-729-216-22	s	TRANSISTOR 2SA1162
Q10	8-729-216-22	s	TRANSISTOR 2SA1162
Q11	8-729-216-22	s	TRANSISTOR 2SA1162
Q12	8-729-216-22	s	TRANSISTOR 2SA1162
Q13	8-729-100-66	s	TRANSISTOR 2SC1623
Q14	8-729-100-66	s	TRANSISTOR 2SC1623
Q15	8-729-100-66	s	TRANSISTOR 2SC1623

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Ref. No. or Q'ty	Part No.	SP	Description
Q16	8-729-216-22	s	TRANSISTOR 2SA1162
Q17	8-729-100-66	s	TRANSISTOR 2SC1623
Q18	8-729-100-66	s	TRANSISTOR 2SC1623
Q19	8-729-100-66	s	TRANSISTOR 2SC1623
Q20	8-729-100-66	s	TRANSISTOR 2SC1623
Q21	8-729-100-66	s	TRANSISTOR 2SC1623
Q22	8-729-100-66	s	TRANSISTOR 2SC1623
Q23	8-729-100-66	s	TRANSISTOR 2SC1623
Q24	8-729-100-66	s	TRANSISTOR 2SC1623
Q25	8-729-216-22	s	TRANSISTOR 2SA1162
R1	1-216-091-00	s	METAL, CHIP 56K 5% 1/10W
R2	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R3	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R4	1-216-091-00	s	METAL, CHIP 56K 5% 1/10W
R5	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R6	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R7	1-216-091-00	s	METAL, CHIP 56K 5% 1/10W
R8	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R9	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R11	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R13	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R14	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R15	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R16	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R17	1-216-055-00	s	METAL, CHIP 1.8K 5% 1/10W
R18	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R19	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R23	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R24	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R25	1-216-059-00	s	METAL, CHIP 2.7K 5% 1/10W
R26	1-216-063-00	s	METAL, CHIP 3.9K 5% 1/10W
R27	1-216-063-00	s	METAL, CHIP 3.9K 5% 1/10W
R28	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R29	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R30	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R31	1-216-035-00	s	METAL, CHIP 270 5% 1/10W
R33	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R34	1-216-091-00	s	METAL, CHIP 56K 5% 1/10W
R35	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R36	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R37	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R42	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R43	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R44	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R45	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R46	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R47	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R48	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R49	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R50	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R51	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R52	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R53	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R54	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R55	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R56	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R57	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R58	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R59	1-216-091-00	s	METAL, CHIP 56K 5% 1/10W

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
R60	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R61	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R62	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R63	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R64	1-216-091-00	s	METAL, CHIP 56K 5% 1/10W
R65	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R66	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R67	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R68	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R69	1-216-091-00	s	METAL, CHIP 56K 5% 1/10W
R70	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R71	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R72	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R73	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R74	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R75	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R76	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R77	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R78	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R79	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R80	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R81	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R82	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R83	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R84	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R85	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R86	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R87	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R88	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R89	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R90	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R91	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R92	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R93	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R94	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R95	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R96	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R97	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R98	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R99	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R100	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R101	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R102	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R103	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R104	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R105	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R106	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R107	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R108	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R109	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R110	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R111	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R112	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R113	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R114	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R115	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R116	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R117	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R118	1-216-023-00	s	METAL, CHIP 82 5% 1/10W

(SY-138 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R119	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R120	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R121	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R122	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R123	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R124	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R125	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R126	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R127	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R128	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R129	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R130	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R131	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R132	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R133	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R134	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R135	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R138	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R139	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R140	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R141	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R142	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R143	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R144	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R145	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R146	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R147	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R148	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R149	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R150	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R151	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R152	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R153	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R154	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R155	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R156	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R157	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R158	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R159	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R160	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R161	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R162	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R163	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R164	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R165	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R200	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R201	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R202	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R203	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R204	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R205	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R206	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R207	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R208	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R209	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R210	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R211	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R212	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R213	1-216-023-00	s	METAL, CHIP 82 5% 1/10W

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(SY-138 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R214	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R215	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R216	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R217	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R218	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R219	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R220	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R221	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R222	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R223	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R224	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R225	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R226	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R227	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R228	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R229	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R230	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R231	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R232	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R233	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R234	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R235	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R236	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R237	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R238	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R239	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R240	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R241	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R242	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R243	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R244	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R245	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R246	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R247	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R248	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R249	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R250	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R251	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R252	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R253	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R254	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R255	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R256	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R257	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R258	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R259	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R260	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R261	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R262	1-216-091-00	s	METAL, CHIP 56K 5% 1/10W
R263	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R264	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R265	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R266	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R267	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
RV1	1-237-035-11	s	RES, ADJ, METAL 5K
RY9	1-515-648-11	s	RELAY, POWER (DS)
X1	1-567-796-11	s	OSCILLATOR, CRYSTAL 14.7456MHz

(SY-138 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
X2	1-567-864-11	s	CRYSTAL, 10.737635MHz
X3	1-567-864-11	s	CRYSTAL, 10.737635MHz
X4	1-567-864-11	s	CRYSTAL, 10.737635MHz
X5	1-567-864-11	s	CRYSTAL, 10.737635MHz

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

SY-154 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6268-376-A	o	MOUNTED CIRCUIT BOARD, SY-154
C1	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C2	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C3	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C4	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C5	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C6	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C7	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C8	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C9	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C10	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C11	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C12	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C13	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
CN1	1-506-493-11	s	CONNECTOR, 14P, MALE
CN2	1-506-485-11	s	CONNECTOR, 6P, MALE
D1	8-719-102-51	s	DIODE 1SZ51
IC1	8-759-926-67	s	IC SN74HC374NS
IC2	8-759-926-67	s	IC SN74HC374NS
IC3	8-759-926-67	s	IC SN74HC374NS
IC4	8-759-926-67	s	IC SN74HC374NS
IC5	8-759-103-95	s	IC UPC648C
IC6	8-759-103-95	s	IC UPC648C
IC7	8-759-906-54	s	IC TL064CNS
IC8	8-759-906-54	s	IC TL064CNS
IC9	8-759-906-54	s	IC TL064CNS
Q1	8-729-100-66	s	TRANSISTOR 2SC1623
Q2	8-729-100-66	s	TRANSISTOR 2SC1623
Q3	8-729-100-66	s	TRANSISTOR 2SC1623
Q4	8-729-100-66	s	TRANSISTOR 2SC1623
Q5	8-729-100-66	s	TRANSISTOR 2SC1623
Q6	8-729-100-66	s	TRANSISTOR 2SC1623
R1	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R2	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R3	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R4	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R5	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R6	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R7	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R8	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R9	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R10	1-216-047-00	s	METAL, CHIP 820 5% 1/10W
R11	1-216-051-00	s	METAL, CHIP 1.2K 5% 1/10W
R12	1-216-069-00	s	METAL, CHIP 6.8K 5% 1/10W
R13	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R14	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R15	1-216-069-00	s	METAL, CHIP 6.8K 5% 1/10W
R16	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R17	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R18	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R19	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R20	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R21	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
RV1	1-237-036-11	s	RES, ADJ, METAL 10K
RV2	1-237-033-11	s	RES, ADJ, METAL 1K

WP-27 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-248-A	o	MOUNTED CIRCUIT BOARD, WP-27 (P)
1pc	2-139-140-01	o	PLATE, SHIELD
1pc	2-182-909-01	o	LEVER, PC BOARD
2pcs	3-621-124-00	o	SPACER
1pc	7-626-320-11	o	PIN, SPRING 3X8
2pcs	7-682-947-01	s	SCREW +PSW 3X6
4pcs	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
C2	1-124-589-11	s	ELECT 47uF 20% 16V
C4	1-124-589-11	s	ELECT 47uF 20% 16V
C6	1-124-589-11	s	ELECT 47uF 20% 16V
C7	1-131-365-00	s	TANTALUM 10uF 10% 20V
C8	1-136-499-11	s	FILM 0.047uF 5% 50V
C11	1-124-589-11	s	ELECT 47uF 20% 16V
C13	1-124-589-11	s	ELECT 47uF 20% 16V
C18	1-124-589-11	s	ELECT 47uF 20% 16V
C21	1-124-589-11	s	ELECT 47uF 20% 16V
C22	1-124-589-11	s	ELECT 47uF 20% 16V
C24	1-124-589-11	s	ELECT 47uF 20% 16V
C26	1-131-379-00	s	TANTALUM 22uF 10% 10V
C28	1-124-589-11	s	ELECT 47uF 20% 16V
C30	1-124-589-11	s	ELECT 47uF 20% 16V
C36	1-124-589-11	s	ELECT 47uF 20% 16V
C38	1-126-157-11	s	ELECT 10uF 20% 16V
C53	1-124-589-11	s	ELECT 47uF 20% 16V
C55	1-124-589-11	s	ELECT 47uF 20% 16V
C57	1-124-589-11	s	ELECT 47uF 20% 16V
C58	1-126-157-11	s	ELECT 10uF 20% 16V
C59	1-126-157-11	s	ELECT 10uF 20% 16V
C60	1-124-589-11	s	ELECT 47uF 20% 16V
C62	1-124-589-11	s	ELECT 47uF 20% 16V
C64	1-126-157-11	s	ELECT 10uF 20% 16V
C66	1-124-589-11	s	ELECT 47uF 20% 16V
C68	1-124-589-11	s	ELECT 47uF 20% 16V
C71	1-124-589-11	s	ELECT 47uF 20% 16V
C75	1-124-589-11	s	ELECT 47uF 20% 16V
C76	1-124-589-11	s	ELECT 47uF 20% 16V
C80	1-131-377-00	s	TANTALUM 10uF 10% 10V
C82	1-131-377-00	s	TANTALUM 10uF 10% 10V
C83	1-124-589-11	s	ELECT 47uF 20% 16V
C93	1-124-589-11	s	ELECT 47uF 20% 16V
C94	1-124-589-11	s	ELECT 47uF 20% 16V
C101	1-124-589-11	s	ELECT 47uF 20% 16V
C102	1-124-589-11	s	ELECT 47uF 20% 16V
C109	1-124-589-11	s	ELECT 47uF 20% 16V
C110	1-124-589-11	s	ELECT 47uF 20% 16V
C120	1-124-589-11	s	ELECT 47uF 20% 16V
C121	1-124-589-11	s	ELECT 47uF 20% 16V
C122	1-124-589-11	s	ELECT 47uF 20% 16V
C125	1-124-589-11	s	ELECT 47uF 20% 16V
C126	1-107-085-00	s	MICA 100PF 5% 50V
C130	1-163-081-00	s	CERAMIC, CHIP 0.22uF 25V
C131	1-163-081-00	s	CERAMIC, CHIP 0.22uF 25V
C132	1-163-081-00	s	CERAMIC, CHIP 0.22uF 25V
C133	1-163-081-00	s	CERAMIC, CHIP 0.22uF 25V
C638	1-107-085-00	s	MICA 100PF 5% 50V
C640	1-124-589-11	s	ELECT 47uF 20% 16V
C642	1-126-157-11	s	ELECT 10uF 20% 16V
C643	1-163-033-00	s	CERAMIC, CHIP 0.022uF 50V

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(WP-27 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C644	1-126-157-11	s	ELECT 10uF 20% 16V
C645	1-163-033-00	s	CERAMIC, CHIP 0.022uF 50V
C650	1-124-589-11	s	ELECT 47uF 20% 16V
C652	1-124-589-11	s	ELECT 47uF 20% 16V
C654	1-107-085-00	s	MICA 100PF 5% 50V
C701	1-126-157-11	s	ELECT 10uF 20% 16V
C702	1-131-349-00	s	TANTALUM 2.2uF 10% 35V
C707	1-124-589-11	s	ELECT 47uF 20% 16V
C714	1-131-377-00	s	TANTALUM 10uF 10% 10V
CN2	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN3	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN20	1-506-694-11	o	HEADER 26P
CT1	1-141-260-00	s	CAP, TRIMMER 50PF
D1	8-719-100-05	s	DIODE 1S2837
D2	8-719-100-05	s	DIODE 1S2837
D3	8-719-815-59	s	DIODE 1S1555-S
D4	8-719-815-59	s	DIODE 1S1555-S
D5	8-719-100-03	s	DIODE 1S2835
D6	8-719-100-03	s	DIODE 1S2835
D7	8-719-106-08	s	DIODE RD6.2M-B2
D8	8-719-100-03	s	DIODE 1S2835
D13	8-719-100-03	s	DIODE 1S2835
D14	8-719-800-76	s	DIODE 1SS226
D15	8-719-800-76	s	DIODE 1SS226
D16	8-719-800-76	s	DIODE 1SS226
D17	8-719-800-76	s	DIODE 1SS226
D28	8-719-100-05	s	DIODE 1S2837
D601	8-719-105-91	s	DIODE RD5.6M-B2
D602	8-719-105-91	s	DIODE RD5.6M-B2
D603	8-719-105-91	s	DIODE RD5.6M-B2
D604	8-719-105-91	s	DIODE RD5.6M-B2
D605	8-719-105-91	s	DIODE RD5.6M-B2
D606	8-719-105-91	s	DIODE RD5.6M-B2
D607	8-719-105-91	s	DIODE RD5.6M-B2
D608	8-719-105-91	s	DIODE RD5.6M-B2
D609	8-719-105-32	s	DIODE RD2.7M-B2
D610	8-719-100-05	s	DIODE 1S2837
D611	8-719-105-91	s	DIODE RD5.6M-B2
D612	8-719-105-91	s	DIODE RD5.6M-B2
D613	8-719-105-91	s	DIODE RD5.6M-B2
D614	8-719-105-91	s	DIODE RD5.6M-B2
D615	8-719-100-05	s	DIODE 1S2837
D616	8-719-100-05	s	DIODE 1S2837
D701	8-719-100-03	s	DIODE 1S2835
D702	8-719-800-76	s	DIODE 1SS226
D703	8-719-800-76	s	DIODE 1SS226
D704	8-719-100-03	s	DIODE 1S2835
D705	8-719-800-76	s	DIODE 1SS226
D706	8-719-800-76	s	DIODE 1SS226
D707	8-719-800-76	s	DIODE 1SS226
D708	8-719-800-76	s	DIODE 1SS226
D709	8-719-800-76	s	DIODE 1SS226
FL601	1-235-585-11	s	FILTER, LOW PASS
IC1	8-759-908-17	s	IC TL082CPS
IC2	8-759-982-44	s	IC RC79L05A
IC3	8-759-114-06	s	IC UPC814G2-1
IC4	8-759-984-88	s	IC LM6361M

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Ref. No. or Q'ty	Part No.	SP	Description
IC5	8-759-939-40	s	IC LM3046N
IC6	8-759-984-88	s	IC LM6361M
IC7	8-759-984-88	s	IC LM6361M
IC8	8-759-984-88	s	IC LM6361M
IC9	8-759-908-17	s	IC TL082CPS
IC10	8-759-114-06	s	IC UPC814G2-1
IC11	8-759-114-06	s	IC UPC814G2-1
IC12	8-759-114-06	s	IC UPC814G2-1
IC13	8-759-009-05	s	IC MC14051BF
IC14	8-759-009-05	s	IC MC14051BF
IC15	8-759-014-96	s	IC MC1496P
IC16	8-759-908-17	s	IC TL082CPS
IC17	8-759-114-06	s	IC UPC814G2-1
IC18	8-759-114-06	s	IC UPC814G2-1
IC19	8-759-009-07	s	IC MC14053BF
IC20	8-759-908-17	s	IC TL082CPS
IC21	8-759-009-07	s	IC MC14053BF
IC22	8-759-746-86	s	IC 27C128-25
IC23	8-759-250-20	s	IC TC5020BP
IC24	8-759-250-20	s	IC TC5020BP
IC25	8-759-982-21	s	IC RC78L05A
IC26	8-759-908-17	s	IC TL082CPS
IC27	8-759-014-96	s	IC MC1496P
IC28	8-759-114-06	s	IC UPC814G2-1
IC29	8-759-009-07	s	IC MC14053BF
IC30	8-759-908-17	s	IC TL082CPS
IC31	8-759-908-17	s	IC TL082CPS
IC36	8-759-908-17	s	IC TL082CPS
IC37	8-759-908-17	s	IC TL082CPS
IC38	8-759-009-07	s	IC MC14053BF
IC39	8-759-908-17	s	IC TL082CPS
IC40	8-759-009-06	s	IC MC14052BF
IC41	8-759-908-17	s	IC TL082CPS
IC42	8-759-908-17	s	IC TL082CPS
IC43	8-759-908-17	s	IC TL082CPS
IC44	8-759-908-17	s	IC TL082CPS
IC45	8-759-908-17	s	IC TL082CPS
IC46	8-759-908-17	s	IC TL082CPS
IC47	8-759-908-17	s	IC TL082CPS
IC48	8-759-908-17	s	IC TL082CPS
IC49	8-759-114-06	s	IC UPC814G2-1
IC50	8-759-114-06	s	IC UPC814G2-1
IC51	8-759-008-67	s	IC MC14066BF
IC52	8-759-008-67	s	IC MC14066BF
IC53	8-759-008-67	s	IC MC14066BF
IC55	8-759-114-06	s	IC UPC814G2-1
IC56	8-759-009-06	s	IC MC14052BF
IC57	8-759-114-06	s	IC UPC814G2-1
IC60	8-759-008-67	s	IC MC14066BF
IC61	8-759-008-67	s	IC MC14066BF
IC62	8-759-008-67	s	IC MC14066BF
IC63	8-759-114-06	s	IC UPC814G2-1
IC64	8-759-009-06	s	IC MC14052BF
IC67	8-759-114-06	s	IC UPC814G2-1
IC68	8-759-008-67	s	IC MC14066BF
IC69	8-759-008-67	s	IC MC14066BF
IC70	8-759-008-67	s	IC MC14066BF
IC72	8-759-114-06	s	IC UPC814G2-1
IC73	8-759-009-06	s	IC MC14052BF

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
IC74	8-759-114-06	s	IC UPC814G2-1
IC77	8-759-008-67	s	IC MC14066BF
IC78	8-759-008-67	s	IC MC14066BF
IC79	8-759-008-67	s	IC MC14066BF
IC80	8-759-114-06	s	IC UPC814G2-1
IC82	8-759-114-06	s	IC UPC814G2-1
IC83	8-759-009-06	s	IC MC14052BF
IC84	8-759-114-06	s	IC UPC814G2-1
IC85	8-759-114-06	s	IC UPC814G2-1
IC601	8-759-205-31	s	IC TC74HC373F
IC602	8-759-205-31	s	IC TC74HC373F
IC603	8-759-205-31	s	IC TC74HC373F
IC604	8-759-926-48	s	IC SN74HC244NS
IC605	8-759-746-88	s	IC UPD8749HD
IC606	8-759-926-48	s	IC SN74HC244NS
IC607	8-759-926-48	s	IC SN74HC244NS
IC608	8-759-921-85	s	IC SN74HC4515NT
IC609	8-759-233-87	s	IC TC74HCT7007AF
IC610	8-759-206-28	s	IC TC74HC123F
IC611	8-759-274-76	s	IC TC7476BP
IC612	8-759-926-67	s	IC SN74HC374NS
IC613	8-759-926-67	s	IC SN74HC374NS
IC614	8-759-926-67	s	IC SN74HC374NS
IC615	8-759-926-67	s	IC SN74HC374NS
IC616	8-759-971-94	s	IC MBM27C256A-25CZ
IC617	8-759-971-94	s	IC MBM27C256A-25CZ
IC620	8-759-233-87	s	IC TC74HCT7007AF
IC621	8-759-926-23	s	IC SN74HC163NS
IC622	8-759-009-37	s	IC MC14512BF
IC623	8-759-233-87	s	IC TC74HCT7007AF
IC624	8-759-233-87	s	IC TC74HCT7007AF
IC625	8-759-009-37	s	IC MC14512BF
IC628	8-759-205-39	s	IC TC74HC4049F
IC629	8-759-209-13	s	IC TC4042BF
IC630	8-759-803-70	s	IC SN74HC08NS
IC631	8-752-306-51	s	IC CX23065
IC632	8-759-948-01	s	IC 74F04SJ
IC633	8-759-917-49	s	IC 74F112PC
IC634	8-752-304-30	s	IC CX23043
IC635	8-759-915-41	s	IC 74F02PC
IC636	8-752-304-30	s	IC CX23043
IC637	8-759-009-07	s	IC MC14053BF
IC640	8-759-009-07	s	IC MC14053BF
IC641	8-759-009-07	s	IC MC14053BF
IC701	8-759-233-87	s	IC TC74HCT7007AF
IC702	8-759-908-17	s	IC TL082CPS
IC703	8-759-908-17	s	IC TL082CPS
IC704	8-759-908-17	s	IC TL082CPS
IC705	8-759-908-17	s	IC TL082CPS
IC706	8-759-908-17	s	IC TL082CPS
IC707	8-759-908-17	s	IC TL082CPS
IC708	8-759-908-92	s	IC TL084CNS
IC709	8-759-908-92	s	IC TL084CNS
IC710	8-759-908-92	s	IC TL084CNS
IC711	8-759-908-92	s	IC TL084CNS
IC712	8-759-908-17	s	IC TL082CPS
IC713	8-759-008-99	s	IC MC14042BF
JR601	1-216-295-00	s	METAL, CHIP 0-OHM

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Ref. No. or Q'ty	Part No.	SP	Description
JR603	1-216-295-00	s	METAL, CHIP 0-OHM
JR605	1-216-295-00	s	METAL, CHIP 0-OHM
JR607	1-216-295-00	s	METAL, CHIP 0-OHM
JR609	1-216-295-00	s	METAL, CHIP 0-OHM
JR612	1-216-295-00	s	METAL, CHIP 0-OHM
JR613	1-216-295-00	s	METAL, CHIP 0-OHM
JR616	1-216-295-00	s	METAL, CHIP 0-OHM
JR617	1-216-295-00	s	METAL, CHIP 0-OHM
JR619	1-216-295-00	s	METAL, CHIP 0-OHM
JR622	1-216-295-00	s	METAL, CHIP 0-OHM
JR624	1-216-295-00	s	METAL, CHIP 0-OHM
JR625	1-216-295-00	s	METAL, CHIP 0-OHM
JR627	1-216-295-00	s	METAL, CHIP 0-OHM
JR630	1-216-295-00	s	METAL, CHIP 0-OHM
JR631	1-216-295-00	s	METAL, CHIP 0-OHM
JR634	1-216-295-00	s	METAL, CHIP 0-OHM
JR636	1-216-295-00	s	METAL, CHIP 0-OHM
JR638	1-216-295-00	s	METAL, CHIP 0-OHM
JR640	1-216-295-00	s	METAL, CHIP 0-OHM
JR641	1-216-295-00	s	METAL, CHIP 0-OHM
Q1	8-729-100-66	s	TRANSISTOR 2SC1623
Q2	8-729-216-22	s	TRANSISTOR 2SA1162
Q3	8-729-100-66	s	TRANSISTOR 2SC1623
Q4	8-729-216-22	s	TRANSISTOR 2SA1162
Q5	8-729-100-66	s	TRANSISTOR 2SC1623
Q6	8-729-100-66	s	TRANSISTOR 2SC1623
Q7	8-729-100-66	s	TRANSISTOR 2SC1623
Q8	8-729-100-66	s	TRANSISTOR 2SC1623
Q9	8-729-175-73	s	TRANSISTOR 2SC2757
Q10	8-729-112-65	s	TRANSISTOR 2SA1462
Q11	8-729-112-65	s	TRANSISTOR 2SA1462
Q12	8-729-175-73	s	TRANSISTOR 2SC2757
Q14	8-729-100-66	s	TRANSISTOR 2SC1623
Q15	8-729-216-22	s	TRANSISTOR 2SA1162
Q16	8-729-100-66	s	TRANSISTOR 2SC1623
Q17	8-729-216-22	s	TRANSISTOR 2SA1162
Q18	8-729-100-66	s	TRANSISTOR 2SC1623
Q19	8-729-100-66	s	TRANSISTOR 2SC1623
Q20	8-729-100-66	s	TRANSISTOR 2SC1623
Q21	8-729-100-66	s	TRANSISTOR 2SC1623
Q22	8-729-100-66	s	TRANSISTOR 2SC1623
Q23	8-729-216-22	s	TRANSISTOR 2SA1162
Q24	8-729-216-22	s	TRANSISTOR 2SA1162
Q25	8-729-100-66	s	TRANSISTOR 2SC1623
Q35	8-729-175-73	s	TRANSISTOR 2SC2757
Q36	8-729-112-65	s	TRANSISTOR 2SA1462
Q37	8-729-112-65	s	TRANSISTOR 2SA1462
Q38	8-729-175-73	s	TRANSISTOR 2SC2757
Q39	8-729-112-65	s	TRANSISTOR 2SA1462
Q40	8-729-100-66	s	TRANSISTOR 2SC1623
Q41	8-729-100-66	s	TRANSISTOR 2SC1623
Q42	8-729-100-66	s	TRANSISTOR 2SC1623
Q43	8-729-100-66	s	TRANSISTOR 2SC1623
Q56	8-729-216-22	s	TRANSISTOR 2SA1162
Q57	8-729-216-22	s	TRANSISTOR 2SA1162
Q60	8-729-100-66	s	TRANSISTOR 2SC1623
Q61	8-729-100-66	s	TRANSISTOR 2SC1623
Q62	8-729-100-66	s	TRANSISTOR 2SC1623
Q63	8-729-100-66	s	TRANSISTOR 2SC1623

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
Q64	8-729-100-66	s	TRANSISTOR 2SC1623
Q65	8-729-100-66	s	TRANSISTOR 2SC1623
Q66	8-729-216-22	s	TRANSISTOR 2SA1162
Q67	8-729-216-22	s	TRANSISTOR 2SA1162
Q68	8-729-216-22	s	TRANSISTOR 2SA1162
Q69	8-729-175-73	s	TRANSISTOR 2SC2757
Q70	8-729-175-73	s	TRANSISTOR 2SC2757
Q71	8-729-175-73	s	TRANSISTOR 2SC2757
Q72	8-729-216-22	s	TRANSISTOR 2SA1162
Q73	8-729-216-22	s	TRANSISTOR 2SA1162
Q74	8-729-216-22	s	TRANSISTOR 2SA1162
Q75	8-729-216-22	s	TRANSISTOR 2SA1162
Q76	8-729-175-73	s	TRANSISTOR 2SC2757
Q77	8-729-175-73	s	TRANSISTOR 2SC2757
Q78	8-729-175-73	s	TRANSISTOR 2SC2757
Q79	8-729-216-22	s	TRANSISTOR 2SA1162
Q80	8-729-216-22	s	TRANSISTOR 2SA1162
Q81	8-729-216-22	s	TRANSISTOR 2SA1162
Q82	8-729-216-22	s	TRANSISTOR 2SA1162
Q83	8-729-175-73	s	TRANSISTOR 2SC2757
Q84	8-729-175-73	s	TRANSISTOR 2SC2757
Q85	8-729-175-73	s	TRANSISTOR 2SC2757
Q86	8-729-216-22	s	TRANSISTOR 2SA1162
Q87	8-729-216-22	s	TRANSISTOR 2SA1162
Q88	8-729-216-22	s	TRANSISTOR 2SA1162
Q89	8-729-216-22	s	TRANSISTOR 2SA1162
Q90	8-729-175-73	s	TRANSISTOR 2SC2757
Q91	8-729-175-73	s	TRANSISTOR 2SC2757
Q92	8-729-175-73	s	TRANSISTOR 2SC2757
Q93	8-729-216-22	s	TRANSISTOR 2SA1162
Q95	8-729-100-66	s	TRANSISTOR 2SC1623
Q96	8-729-100-66	s	TRANSISTOR 2SC1623
Q97	8-729-100-66	s	TRANSISTOR 2SC1623
Q98	8-729-100-66	s	TRANSISTOR 2SC1623
Q601	8-729-100-66	s	TRANSISTOR 2SC1623
Q602	8-729-100-66	s	TRANSISTOR 2SC1623
Q603	8-729-100-66	s	TRANSISTOR 2SC1623
Q604	8-729-100-66	s	TRANSISTOR 2SC1623
Q605	8-729-100-66	s	TRANSISTOR 2SC1623
Q606	8-729-100-66	s	TRANSISTOR 2SC1623
Q701	8-729-100-66	s	TRANSISTOR 2SC1623
Q702	8-729-100-66	s	TRANSISTOR 2SC1623
Q703	8-729-216-22	s	TRANSISTOR 2SA1162
Q704	8-729-100-66	s	TRANSISTOR 2SC1623
Q705	8-729-100-66	s	TRANSISTOR 2SC1623
Q706	8-729-216-22	s	TRANSISTOR 2SA1162
Q707	8-729-216-22	s	TRANSISTOR 2SA1162
Q708	8-729-216-22	s	TRANSISTOR 2SA1162
Q709	8-729-216-22	s	TRANSISTOR 2SA1162
Q710	8-729-100-66	s	TRANSISTOR 2SC1623
Q711	8-729-100-66	s	TRANSISTOR 2SC1623
Q712	8-729-100-66	s	TRANSISTOR 2SC1623
Q713	8-729-216-22	s	TRANSISTOR 2SA1162
Q714	8-729-216-22	s	TRANSISTOR 2SA1162
Q715	8-729-216-22	s	TRANSISTOR 2SA1162
Q716	8-729-216-22	s	TRANSISTOR 2SA1162
Q717	8-729-100-66	s	TRANSISTOR 2SC1623
Q718	8-729-100-66	s	TRANSISTOR 2SC1623
Q719	8-729-100-66	s	TRANSISTOR 2SC1623

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Ref. No. or Q'ty	Part No.	SP	Description
Q720	8-729-100-66	s	TRANSISTOR 2SC1623
Q721	8-729-100-66	s	TRANSISTOR 2SC1623
Q722	8-729-216-22	s	TRANSISTOR 2SA1162
Q723	8-729-100-66	s	TRANSISTOR 2SC1623
Q724	8-729-100-66	s	TRANSISTOR 2SC1623
Q725	8-729-216-22	s	TRANSISTOR 2SA1162
Q726	8-729-216-22	s	TRANSISTOR 2SA1162
Q727	8-729-216-22	s	TRANSISTOR 2SA1162
Q728	8-729-216-22	s	TRANSISTOR 2SA1162
Q729	8-729-100-66	s	TRANSISTOR 2SC1623
Q730	8-729-100-66	s	TRANSISTOR 2SC1623
Q731	8-729-100-66	s	TRANSISTOR 2SC1623
Q732	8-729-216-22	s	TRANSISTOR 2SA1162
Q733	8-729-216-22	s	TRANSISTOR 2SA1162
Q734	8-729-216-22	s	TRANSISTOR 2SA1162
Q735	8-729-216-22	s	TRANSISTOR 2SA1162
Q736	8-729-100-66	s	TRANSISTOR 2SC1623
Q737	8-729-100-66	s	TRANSISTOR 2SC1623
Q738	8-729-100-66	s	TRANSISTOR 2SC1623
Q739	8-729-100-66	s	TRANSISTOR 2SC1623
Q740	8-729-100-66	s	TRANSISTOR 2SC1623
Q741	8-729-100-66	s	TRANSISTOR 2SC1623
Q742	8-729-100-66	s	TRANSISTOR 2SC1623
Q743	8-729-100-66	s	TRANSISTOR 2SC1623
Q744	8-729-216-22	s	TRANSISTOR 2SA1162
Q745	8-729-216-22	s	TRANSISTOR 2SA1162
Q746	8-729-216-22	s	TRANSISTOR 2SA1162
Q747	8-729-100-66	s	TRANSISTOR 2SC1623
Q748	8-729-100-66	s	TRANSISTOR 2SC1623
Q749	8-729-100-66	s	TRANSISTOR 2SC1623
Q750	8-729-100-66	s	TRANSISTOR 2SC1623
Q751	8-729-100-66	s	TRANSISTOR 2SC1623
Q752	8-729-100-66	s	TRANSISTOR 2SC1623
Q753	8-729-100-66	s	TRANSISTOR 2SC1623
Q754	8-729-100-66	s	TRANSISTOR 2SC1623
Q755	8-729-100-66	s	TRANSISTOR 2SC1623
Q756	8-729-140-96	s	TRANSISTOR 2SD774-4
Q757	8-729-100-66	s	TRANSISTOR 2SC1623
Q758	8-729-100-66	s	TRANSISTOR 2SC1623
R31	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R34	1-216-309-00	s	METAL 5.6 5% 1/10W
R41	1-216-302-00	s	METAL 2.7 5% 1/10W
R45	1-216-302-00	s	METAL 2.7 5% 1/10W
RV1	1-237-036-11	s	RES, ADJ, METAL 10K
RV3	1-237-036-11	s	RES, ADJ, METAL 10K
RV4	1-237-032-11	s	RES, ADJ, METAL 500
RV5	1-237-033-11	s	RES, ADJ, METAL 1K
RV6	1-237-036-11	s	RES, ADJ, METAL 10K
RV7	1-237-038-11	s	RES, ADJ, METAL 50K
RV8	1-237-034-11	s	RES, ADJ, METAL 2K
RV9	1-237-036-11	s	RES, ADJ, METAL 10K
RV10	1-237-036-11	s	RES, ADJ, METAL 10K
RV12	1-237-036-11	s	RES, ADJ, METAL 10K
RV13	1-237-032-11	s	RES, ADJ, METAL 500
RV14	1-237-033-11	s	RES, ADJ, METAL 1K
RV15	1-237-034-11	s	RES, ADJ, METAL 2K
RV16	1-237-034-11	s	RES, ADJ, METAL 2K
RV17	1-237-033-11	s	RES, ADJ, METAL 1K

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
RV18	1-237-033-11	s	RES, ADJ, METAL 1K
RV19	1-237-033-11	s	RES, ADJ, METAL 1K
RV20	1-237-036-11	s	RES, ADJ, METAL 10K
RV22	1-237-035-11	s	RES, ADJ, METAL 5K
RV23	1-237-035-11	s	RES, ADJ, METAL 5K
RV24	1-237-035-11	s	RES, ADJ, METAL 5K
RV25	1-237-035-11	s	RES, ADJ, METAL 5K
RV26	1-237-033-11	s	RES, ADJ, METAL 1K
RV27	1-237-035-11	s	RES, ADJ, METAL 5K
RV28	1-237-035-11	s	RES, ADJ, METAL 5K
RV29	1-237-035-11	s	RES, ADJ, METAL 5K
RV30	1-237-035-11	s	RES, ADJ, METAL 5K
RV35	1-237-032-11	s	RES, ADJ, METAL 500
RV36	1-237-033-11	s	RES, ADJ, METAL 1K
RV37	1-237-037-11	s	RES, ADJ, METAL 20K
RV38	1-237-037-11	s	RES, ADJ, METAL 20K
RV39	1-237-035-11	s	RES, ADJ, METAL 5K
RV40	1-237-035-11	s	RES, ADJ, METAL 5K
RV41	1-237-032-11	s	RES, ADJ, METAL 500
RV42	1-237-032-11	s	RES, ADJ, METAL 500
RV43	1-237-032-11	s	RES, ADJ, METAL 500
RV44	1-237-032-11	s	RES, ADJ, METAL 500
RV45	1-237-032-11	s	RES, ADJ, METAL 500
RV46	1-237-032-11	s	RES, ADJ, METAL 500
RV47	1-237-032-11	s	RES, ADJ, METAL 500
RV48	1-237-032-11	s	RES, ADJ, METAL 500
RV49	1-237-032-11	s	RES, ADJ, METAL 500
RV50	1-237-036-11	s	RES, ADJ, METAL 10K
RV51	1-237-036-11	s	RES, ADJ, METAL 10K
RV52	1-237-033-11	s	RES, ADJ, METAL 1K
RV53	1-237-032-11	s	RES, ADJ, METAL 500
RV54	1-237-039-11	s	RES, ADJ, METAL 100K
RV55	1-237-033-11	s	RES, ADJ, METAL 1K
RV56	1-237-032-11	s	RES, ADJ, METAL 500
RV57	1-237-037-11	s	RES, ADJ, METAL 20K
RV58	1-237-033-11	s	RES, ADJ, METAL 1K
RV59	1-237-032-11	s	RES, ADJ, METAL 500
RV60	1-237-039-11	s	RES, ADJ, METAL 100K
RV61	1-237-033-11	s	RES, ADJ, METAL 1K
RV62	1-237-032-11	s	RES, ADJ, METAL 500
RV63	1-237-037-11	s	RES, ADJ, METAL 20K
RV64	1-237-032-11	s	RES, ADJ, METAL 500
RV65	1-237-037-11	s	RES, ADJ, METAL 20K
RV66	1-237-037-11	s	RES, ADJ, METAL 20K
RV601	1-237-039-11	s	RES, ADJ, METAL 100K
RV602	1-237-037-11	s	RES, ADJ, METAL 20K
RV603	1-237-037-11	s	RES, ADJ, METAL 20K
RV701	1-237-031-11	s	RES, ADJ, METAL 200
RV702	1-237-034-11	s	RES, ADJ, METAL 2K
RV703	1-237-032-11	s	RES, ADJ, METAL 500
RV704	1-237-031-11	s	RES, ADJ, METAL 200
RV705	1-237-034-11	s	RES, ADJ, METAL 2K
RV706	1-237-032-11	s	RES, ADJ, METAL 500
RV707	1-237-031-11	s	RES, ADJ, METAL 200
RV708	1-237-034-11	s	RES, ADJ, METAL 2K
RV709	1-237-032-11	s	RES, ADJ, METAL 500
RV710	1-237-031-11	s	RES, ADJ, METAL 200
RV711	1-237-034-11	s	RES, ADJ, METAL 2K
RV712	1-237-032-11	s	RES, ADJ, METAL 500

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(WP-27 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RV713	1-237-037-11	s	RES, ADJ, METAL 20K
RV714	1-237-037-11	s	RES, ADJ, METAL 20K
RV715	1-237-036-11	s	RES, ADJ, METAL 10K
RV716	1-237-034-11	s	RES, ADJ, METAL 2K
RV717	1-237-036-11	s	RES, ADJ, METAL 10K
RV718	1-237-034-11	s	RES, ADJ, METAL 2K
RV719	1-237-036-11	s	RES, ADJ, METAL 10K
RV720	1-237-034-11	s	RES, ADJ, METAL 2K
RV721	1-237-036-11	s	RES, ADJ, METAL 10K
RV722	1-237-034-11	s	RES, ADJ, METAL 2K
RV723	1-237-036-11	s	RES, ADJ, METAL 10K
X601	1-527-992-21	s	OSCILLATOR, CERAMIC (EITH CAP)
X602	1-567-597-11	s	OSCILLATOR, CRYSTAL

CN-330 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-265-A	o	MOUNTED CIRCUIT BOARD, CN-330
1pc	2-139-125-01	o	BRACKET (C), BNC
3pcs	7-682-947-01	s	SCREW +PSW 3X6
C1	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C2	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C3	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C4	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C5	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C6	1-131-353-00	s	TANTALUM 10uF 10% 35V
C7	1-131-353-00	s	TANTALUM 10uF 10% 35V
C8	1-131-353-00	s	TANTALUM 10uF 10% 35V
C9	1-131-353-00	s	TANTALUM 10uF 10% 35V
C10	1-131-353-00	s	TANTALUM 10uF 10% 35V
C11	1-131-353-00	s	TANTALUM 10uF 10% 35V
C24	1-124-589-11	s	ELECT 47uF 20% 16V
C25	1-124-589-11	s	ELECT 47uF 20% 16V
CN1	1-506-481-11	s	CONNECTOR, 2P, MALE
CN2	1-506-487-11	o	CONNECTOR, 8P, MALE
CN3	1-506-481-11	o	CONNECTOR, 2P, MALE
CN4	1-506-485-11	s	CONNECTOR, 6P, MALE
CN5	1-506-487-11	s	CONNECTOR, 8P, MALE
CN6	1-563-354-11	s	CONNECTOR, BNC
CN7	1-563-354-11	s	CONNECTOR, BNC
CN8	1-563-354-11	s	CONNECTOR, BNC
CN9	1-563-354-11	s	CONNECTOR, BNC
CN10	1-563-354-11	s	CONNECTOR, BNC
CN11	1-563-354-11	s	CONNECTOR, BNC
CN12	1-563-354-11	s	CONNECTOR, BNC
CN13	1-563-354-11	s	CONNECTOR, BNC
CN14	1-563-354-11	s	CONNECTOR, BNC
CN15	1-563-354-11	s	CONNECTOR, BNC
CN16	1-563-354-11	s	CONNECTOR, BNC
CN17	1-563-354-11	s	CONNECTOR, BNC
CN18	1-563-354-11	s	CONNECTOR, BNC
L5	1-410-723-61	s	CHIP INDUCTOR 330UF
Q1	8-729-100-66	s	TRANSISTOR 2SC1623
Q2	8-729-100-66	s	TRANSISTOR 2SC1623
Q3	8-729-100-66	s	TRANSISTOR 2SC1623
Q4	8-729-100-66	s	TRANSISTOR 2SC1623
Q5	8-729-100-66	s	TRANSISTOR 2SC1623
Q6	8-729-112-65	s	TRANSISTOR 2SA1462
Q7	8-729-112-65	s	TRANSISTOR 2SA1462
Q8	8-729-112-65	s	TRANSISTOR 2SA1462
Q9	8-729-112-65	s	TRANSISTOR 2SA1462
Q10	8-729-112-65	s	TRANSISTOR 2SA1462
R26	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R27	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R28	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R29	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W
R30	1-216-615-11	s	METAL, CHIP 33 0.5% 1/10W

CN-332 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-263-A	s	MOUNTED CIRCUIT BOARD, CN-332
20pcs	3-654-545-00	s	SPACER, BNC
4pcs	7-682-947-01	s	SCREW +PSW 3X6
C11	1-124-589-11	s	ELECT 47uF 20% 16V
C12	1-124-589-11	s	ELECT 47uF 20% 16V
CN1	1-506-471-11	s	CONNECTOR, 6P, MALE
CN2	1-506-471-11	s	CONNECTOR, 6P, MALE
CN3	1-506-471-11	s	CONNECTOR, 6P, MALE
CN4	1-506-473-11	s	CONNECTOR, 8P, MALE
CN5	1-506-471-11	s	CONNECTOR, 6P, MALE
CN6	1-506-469-11	s	CONNECTOR, 4P, MALE
CN7	1-506-471-11	s	CONNECTOR, 6P, MALE
CN8	1-506-471-11	s	CONNECTOR, 6P, MALE
CN9	1-506-469-11	s	CONNECTOR, 4P, MALE
CN10	1-506-469-11	s	CONNECTOR, 4P, MALE
CN11	1-506-469-11	s	CONNECTOR, 4P, MALE
CN12	1-506-473-11	s	CONNECTOR, 8P, MALE
CN13	1-506-468-11	s	CONNECTOR, 3P, MALE
CN14	1-562-227-31	s	RECEPTACLE, BNC
CN15	1-564-407-21	s	CONNECTOR (R-M)
CN16	1-562-227-31	s	RECEPTACLE, BNC
CN17	1-564-407-21	s	CONNECTOR (R-M)
CN18	1-562-227-31	s	RECEPTACLE, BNC
CN19	1-564-407-21	s	CONNECTOR (R-M)
CN20	1-562-227-31	s	RECEPTACLE, BNC
CN21	1-562-160-21	s	CONNECTOR (R-F) 12P
CN22	1-562-227-31	s	RECEPTACLE, BNC
CN23	1-562-227-31	s	RECEPTACLE, BNC
CN24	1-562-227-31	s	RECEPTACLE, BNC
CN25	1-562-227-31	s	RECEPTACLE, BNC
CN26	1-564-407-21	s	CONNECTOR (R-M)
CN27	1-562-227-31	s	RECEPTACLE, BNC
CN28	1-562-227-31	s	RECEPTACLE, BNC
CN29	1-562-227-31	s	RECEPTACLE, BNC
CN30	1-564-407-21	s	CONNECTOR (R-M)
CN31	1-562-227-31	s	RECEPTACLE, BNC
CN32	1-562-227-31	s	RECEPTACLE, BNC
CN33	1-562-227-31	s	RECEPTACLE, BNC
CN34	1-562-227-31	s	RECEPTACLE, BNC
CN35	1-562-227-31	s	RECEPTACLE, BNC
CN36	1-562-160-21	s	CONNECTOR (R-F) 12P
CN37	1-562-227-31	s	RECEPTACLE, BNC
CN38	1-562-227-31	s	RECEPTACLE, BNC
CN39	1-562-227-31	s	RECEPTACLE, BNC
CN40	1-562-227-31	s	RECEPTACLE, BNC
Q1	8-729-100-66	s	TRANSISTOR 2SC1623
Q2	8-729-112-65	s	TRANSISTOR 2SA1462
Q3	8-729-100-66	s	TRANSISTOR 2SC1623
Q4	8-729-112-65	s	TRANSISTOR 2SA1462
Q5	8-729-100-66	s	TRANSISTOR 2SC1623
Q6	8-729-112-65	s	TRANSISTOR 2SA1462
Q7	8-729-100-66	s	TRANSISTOR 2SC1623
Q8	8-729-112-65	s	TRANSISTOR 2SA1462
Q9	8-729-100-66	s	TRANSISTOR 2SC1623
Q10	8-729-112-65	s	TRANSISTOR 2SA1462
Q11	8-729-100-66	s	TRANSISTOR 2SC1623
Q12	8-729-112-65	s	TRANSISTOR 2SA1462
Q13	8-729-100-66	s	TRANSISTOR 2SC1623

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(CN-332 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q14	8-729-112-65	s	TRANSISTOR 2SA1462
Q15	8-729-100-66	s	TRANSISTOR 2SC1623
Q16	8-729-112-65	s	TRANSISTOR 2SA1462
Q17	8-729-100-66	s	TRANSISTOR 2SC1623
Q18	8-729-112-65	s	TRANSISTOR 2SA1462
Q19	8-729-100-66	s	TRANSISTOR 2SC1623
Q20	8-729-112-65	s	TRANSISTOR 2SA1462
Q21	8-729-100-66	s	TRANSISTOR 2SC1623
Q22	8-729-112-65	s	TRANSISTOR 2SA1462
Q23	8-729-100-66	s	TRANSISTOR 2SC1623
Q24	8-729-112-65	s	TRANSISTOR 2SA1462
Q25	8-729-100-66	s	TRANSISTOR 2SC1623
Q26	8-729-112-65	s	TRANSISTOR 2SA1462
Q27	8-729-100-66	s	TRANSISTOR 2SC1623
Q28	8-729-112-65	s	TRANSISTOR 2SA1462
Q29	8-729-100-66	s	TRANSISTOR 2SC1623
Q30	8-729-112-65	s	TRANSISTOR 2SA1462
Q31	8-729-216-22	s	TRANSISTOR 2SA1162
R81	1-215-394-00	s	METAL 75 1% 1/6W
R82	1-215-394-00	s	METAL 75 1% 1/6W
R83	1-215-394-00	s	METAL 75 1% 1/6W
R84	1-215-394-00	s	METAL 75 1% 1/6W
R85	1-215-394-00	s	METAL 75 1% 1/6W
R86	1-215-394-00	s	METAL 75 1% 1/6W
R87	1-215-394-00	s	METAL 75 1% 1/6W
R88	1-215-394-00	s	METAL 75 1% 1/6W
R89	1-215-394-00	s	METAL 75 1% 1/6W
R90	1-215-394-00	s	METAL 75 1% 1/6W
R91	1-215-394-00	s	METAL 75 1% 1/6W
R92	1-215-394-00	s	METAL 75 1% 1/6W
R93	1-215-394-00	s	METAL 75 1% 1/6W
S1	1-554-949-11	s	SWITCH, SLIDE

CN-333 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-262-A	o	MOUNTED CIRCUIT BOARD, CN-333 (P)
2pcs	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
C10	1-124-589-11	s	ELECT 47uF 20% 16V
C11	1-107-085-00	s	MICA 100PF 5% 50V
C14	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C18	1-126-157-11	s	ELECT 10uF 20% 16V
C20	1-126-157-11	s	ELECT 10uF 20% 16V
C22	1-107-085-00	s	MICA 100PF 5% 50V
C25	1-126-157-11	s	ELECT 10uF 20% 16V
C26	1-126-157-11	s	ELECT 10uF 20% 16V
C27	1-126-157-11	s	ELECT 10uF 20% 16V
C28	1-126-157-11	s	ELECT 10uF 20% 16V
C29	1-107-211-00	s	MICA 24PF 5% 500V
C32	1-107-211-00	s	MICA 24PF 5% 500V
C33	1-107-211-00	s	MICA 24PF 5% 500V
C38	1-107-211-00	s	MICA 24PF 5% 500V
C39	1-107-211-00	s	MICA 24PF 5% 500V
C42	1-107-211-00	s	MICA 24PF 5% 500V
C43	1-107-211-00	s	MICA 24PF 5% 500V
C46	1-107-211-00	s	MICA 24PF 5% 500V
C58	1-126-157-11	s	ELECT 10uF 20% 16V
C59	1-126-157-11	s	ELECT 10uF 20% 16V
C63	1-107-090-00	s	MICA 160PF 5% 50V
C64	1-107-090-00	s	MICA 160PF 5% 50V
C67	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
CN1	1-506-745-11	s	PIN, DIN CONNECTOR (DIP) 32P
D1	8-719-800-76	s	DIODE 1SS226
D2	8-719-800-76	s	DIODE 1SS226
DL1	1-415-316-00	s	DELAY LINE 200nS
FL1	1-235-584-11	s	FILTER, LOW PASS
IC2	8-759-009-67	s	IC MC14584BF
IC3	8-759-009-67	s	IC MC14584BF
IC4	8-749-900-77	s	IC BX-1333L
IC5	8-759-982-21	s	IC RC78L05A
IC6	8-759-982-44	s	IC RC79L05A
L3	1-410-713-31	s	INDUCTOR, CHIP 47uH
L4	1-410-713-31	s	INDUCTOR, CHIP 47uH
Q7	8-729-100-66	s	TRANSISTOR 2SC1623
Q8	8-729-100-66	s	TRANSISTOR 2SC1623
Q9	8-729-100-66	s	TRANSISTOR 2SC1623
Q12	8-729-100-66	s	TRANSISTOR 2SC1623
Q13	8-729-216-22	s	TRANSISTOR 2SA1162
Q14	8-729-100-66	s	TRANSISTOR 2SC1623
Q15	8-729-175-73	s	TRANSISTOR 2SC2757
Q16	8-729-216-22	s	TRANSISTOR 2SA1162
Q17	8-729-100-66	s	TRANSISTOR 2SC1623
Q18	8-729-175-73	s	TRANSISTOR 2SC2757
Q19	8-729-100-66	s	TRANSISTOR 2SC1623
Q20	8-729-175-73	s	TRANSISTOR 2SC2757
Q21	8-729-216-22	s	TRANSISTOR 2SA1162
Q22	8-729-100-66	s	TRANSISTOR 2SC1623
Q23	8-729-175-73	s	TRANSISTOR 2SC2757
Q24	8-729-100-66	s	TRANSISTOR 2SC1623
Q25	8-729-175-73	s	TRANSISTOR 2SC2757
Q26	8-729-175-73	s	TRANSISTOR 2SC2757

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(CN-333 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q27	8-729-175-73	s	TRANSISTOR 2SC2757
Q28	8-729-175-73	s	TRANSISTOR 2SC2757
Q29	8-729-100-66	s	TRANSISTOR 2SC1623
Q30	8-729-216-22	s	TRANSISTOR 2SA1162
Q31	8-729-175-73	s	TRANSISTOR 2SC2757
Q33	8-729-100-66	s	TRANSISTOR 2SC1623
Q34	8-729-216-22	s	TRANSISTOR 2SA1162
Q35	8-729-175-73	s	TRANSISTOR 2SC2757
RV1	1-237-037-11	s	RES, ADJ, METAL 20K
RV2	1-237-037-11	s	RES, ADJ, METAL 20K
RV5	1-237-037-11	s	RES, ADJ, METAL 20K
RV6	1-237-037-11	s	RES, ADJ, METAL 20K
RV7	1-237-032-11	s	RES, ADJ, METAL 500
RV8	1-237-032-11	s	RES, ADJ, METAL 500
RV9	1-237-032-11	s	RES, ADJ, METAL 500
RV10	1-237-032-11	s	RES, ADJ, METAL 500

CN-336 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-264-A	o	MOUNTED CIRCUIT BOARD, CN-336
2pcs	7-621-775-40	s	SCREW +B 2.6X8
2pcs	7-622-207-05	o	N 2.6, TYPE 2
12pcs	7-682-547-04	s	SCREW +B 3X6
C1	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C2	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C3	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C4	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
CN1	1-506-792-11	o	HEADER 60P
CN7	1-563-322-11	s	CONNECTOR,D-SUB(MOUNT TYPE)25P
CN8	1-506-796-11	s	CONNECTOR, D-SUB 15P, FEMALE
CN9	1-563-322-11	s	CONNECTOR,D-SUB(MOUNT TYPE)25P
CN10	1-563-323-11	s	CONNECTOR, D-SUB 9P, FEMALE
CN12	1-563-323-11	s	CONNECTOR, D-SUB 9P, FEMALE
CN14	1-563-323-11	s	CONNECTOR, D-SUB 9P, FEMALE
D1	8-719-100-05	s	DIODE 1S2837
D2	8-719-100-05	s	DIODE 1S2837
D3	8-719-100-05	s	DIODE 1S2837
D4	8-719-100-05	s	DIODE 1S2837
D5	8-719-100-05	s	DIODE 1S2837
D6	8-719-100-05	s	DIODE 1S2837
D7	8-719-100-05	s	DIODE 1S2837
D8	8-719-100-05	s	DIODE 1S2837
IC1	8-759-923-65	s	IC AM26LS31CNS
IC2	8-759-923-64	s	IC AM26LS32ACNS
IC3	8-759-923-65	s	IC AM26LS31CNS
IC4	8-759-923-64	s	IC AM26LS32ACNS
Q1	8-729-422-21	s	TRANSISTOR UN2224-TX
Q2	8-729-422-21	s	TRANSISTOR UN2224-TX
Q3	8-729-422-21	s	TRANSISTOR UN2224-TX
Q4	8-729-422-21	s	TRANSISTOR UN2224-TX
Q5	8-729-422-21	s	TRANSISTOR UN2224-TX
Q6	8-729-422-21	s	TRANSISTOR UN2224-TX
Q7	8-729-422-21	s	TRANSISTOR UN2224-TX
Q8	8-729-422-21	s	TRANSISTOR UN2224-TX
R1	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R2	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R3	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R4	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R5	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R6	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R7	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R8	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R9	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R10	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R11	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R12	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R13	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R14	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R15	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R16	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
RY1	1-515-434-00	s	RELAY, MICRO LEAD
RY2	1-515-434-00	s	RELAY, MICRO LEAD
RY3	1-515-434-00	s	RELAY, MICRO LEAD
RY4	1-515-434-00	s	RELAY, MICRO LEAD
RY5	1-515-434-00	s	RELAY, MICRO LEAD

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(CN-336 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RY6	1-515-434-00	s	RELAY, MICRO LEAD
RY7	1-515-434-00	s	RELAY, MICRO LEAD
RY8	1-515-434-00	s	RELAY, MICRO LEAD

EN-80 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-260-A	o	MOUNTED CIRCUIT BOARD, EN-80 (P)
2pcs	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
C1	1-131-353-00	s	TANTALUM 10uF 10% 35V
C2	1-131-353-00	s	TANTALUM 10uF 10% 35V
C3	1-107-042-00	s	MICA 2.2PF 500V
C4	1-107-048-00	s	MICA 6.8PF 500V
C7	1-107-040-00	s	MICA 1.5PF 0.5PF 500VW
C8	1-107-042-00	s	MICA 2.2PF 500V
C11	1-107-085-00	s	MICA 100PF 5% 50V
C12	1-109-545-00	s	MICA 270PF 5% 50V
C13	1-131-345-00	s	TANTALUM 0.47uF 10% 35V
C14	1-131-374-00	s	TANTALUM 33uF 10% 16V
C18	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C20	1-131-374-00	s	TANTALUM 33uF 10% 16V
C23	1-107-085-00	s	MICA 100PF 5% 50V
C24	1-109-545-00	s	MICA 270PF 5% 50V
C25	1-131-345-00	s	TANTALUM 0.47uF 10% 35V
C36	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C37	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C38	1-131-374-00	s	TANTALUM 33uF 10% 16V
C41	1-124-589-11	s	ELECT 47uF 20% 16V
CN1	1-506-745-11	s	PIN, DIN CONNECTOR (DIP) 32P
CV1	1-141-298-11	s	CAP, CERAMIC TRIMMER 10P
DL1	1-415-304-00	s	DELAY LINE (Y)
FL1	1-235-181-00	s	FILTER, BANDPASS 4.43MHz
IC1	8-741-135-60	s	IC BX1356
IC2	8-759-906-59	s	IC CX22017
IC3	8-759-982-44	s	IC RC79L05A
L1	1-410-715-31	s	INDUCTOR, CHIP 68uH
L2	1-410-715-31	s	INDUCTOR, CHIP 68uH
Q1	8-729-175-73	s	TRANSISTOR 2SC2757
Q2	8-729-175-73	s	TRANSISTOR 2SC2757
Q3	8-729-112-65	s	TRANSISTOR 2SA1462
Q4	8-729-100-66	s	TRANSISTOR 2SC1623
Q5	8-729-100-66	s	TRANSISTOR 2SC1623
Q6	8-729-216-22	s	TRANSISTOR 2SA1162
Q7	8-729-100-66	s	TRANSISTOR 2SC1623
Q8	8-729-175-73	s	TRANSISTOR 2SC2757
Q9	8-729-175-73	s	TRANSISTOR 2SC2757
Q10	8-729-100-66	s	TRANSISTOR 2SC1623
Q11	8-729-175-73	s	TRANSISTOR 2SC2757
Q12	8-729-100-66	s	TRANSISTOR 2SC1623
Q13	8-729-100-66	s	TRANSISTOR 2SC1623
Q14	8-729-175-73	s	TRANSISTOR 2SC2757
Q15	8-729-175-73	s	TRANSISTOR 2SC2757
Q16	8-729-100-66	s	TRANSISTOR 2SC1623
Q17	8-729-175-73	s	TRANSISTOR 2SC2757
Q18	8-729-216-22	s	TRANSISTOR 2SA1162
Q19	8-729-216-22	s	TRANSISTOR 2SA1162
Q20	8-729-216-22	s	TRANSISTOR 2SA1162
Q21	8-729-100-66	s	TRANSISTOR 2SC1623
Q22	8-729-100-66	s	TRANSISTOR 2SC1623
Q23	8-729-216-22	s	TRANSISTOR 2SA1162
Q24	8-729-216-22	s	TRANSISTOR 2SA1162

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(EN-80 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R19	1-215-394-00	s	METAL 75 1% 1/6W
R64	1-215-394-00	s	METAL 75 1% 1/6W
R65	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
RV1	1-237-033-11	s	RES, ADJ, METAL 1K
RV2	1-237-034-11	s	RES, ADJ, METAL 2K
RV3	1-237-035-11	s	RES, ADJ, METAL 5K
RV4	1-237-034-11	s	RES, ADJ, METAL 2K
RV5	1-237-035-11	s	RES, ADJ, METAL 5K
RV6	1-237-037-11	s	RES, ADJ, METAL 20K
RV7	1-237-035-11	s	RES, ADJ, METAL 5K
RV8	1-237-035-11	s	RES, ADJ, METAL 5K

IV-25 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6257-258-A	o	MOUNTED CIRCUIT BOARD, IV-25 (P)
1pc	2-139-126-01	o	PANEL, REAR, IV
4pcs	7-682-947-01	s	SCREW +PSW 3X6
2pcs	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
C1	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C4	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C7	1-124-282-00	s	ELECT, NONPOLAR 22uF 20% 25V
C13	1-135-125-21	s	TANTALUM, CHIP 33uF 20% 10V
C14	1-131-353-00	s	TANTALUM 10uF 10% 35V
C15	1-131-353-00	s	TANTALUM 10uF 10% 35V
C16	1-135-125-21	s	TANTALUM, CHIP 33uF 20% 10V
C17	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C18	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C20	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C26	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C28	1-124-589-11	s	ELECT 47uF 20% 16V
C29	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C30	1-131-353-00	s	TANTALUM 10uF 10% 35V
C33	1-124-589-11	s	ELECT 47uF 20% 16V
C34	1-131-353-00	s	TANTALUM 10uF 10% 35V
C35	1-131-353-00	s	TANTALUM 10uF 10% 35V
CN1	1-563-354-11	s	CONNECTOR, BNC
CN2	1-563-354-11	s	CONNECTOR, BNC
CN3	1-563-354-11	s	CONNECTOR, BNC
CN4	1-506-745-11	s	PIN, DIN CONNECTOR (DIP) 32P
CN5	1-563-354-11	s	CONNECTOR, BNC
CN6	1-563-354-11	s	CONNECTOR, BNC
CN7	1-563-354-11	s	CONNECTOR, BNC
IC4	8-759-602-06	s	IC M5109P
IC5	8-759-702-07	s	IC NJM1370OM
L1	1-410-721-31	s	INDUCTOR CHIP 220UH
L2	1-410-721-31	s	INDUCTOR CHIP 220UH
Q1	8-729-100-66	s	TRANSISTOR 2SC1623
Q2	8-729-112-65	s	TRANSISTOR 2SA1462-T1Y34
Q3	8-729-100-66	s	TRANSISTOR 2SC1623
Q4	8-729-112-65	s	TRANSISTOR 2SA1462-T1Y34
Q5	8-729-100-66	s	TRANSISTOR 2SC1623
Q6	8-729-112-65	s	TRANSISTOR 2SA1462-T1Y34
Q7	8-729-175-73	s	TRANSISTOR 2SC2757
Q8	8-729-175-73	s	TRANSISTOR 2SC2757
Q11	8-729-216-22	s	TRANSISTOR 2SA1162
Q12	8-729-216-22	s	TRANSISTOR 2SA1162
Q13	8-729-216-22	s	TRANSISTOR 2SA1162
Q14	8-729-175-73	s	TRANSISTOR 2SC2757
Q15	8-729-175-73	s	TRANSISTOR 2SC2757
Q16	8-729-175-73	s	TRANSISTOR 2SC2757
Q17	8-729-112-65	s	TRANSISTOR 2SA1462-T1Y34
Q18	8-729-112-65	s	TRANSISTOR 2SA1462-T1Y34
Q19	8-729-116-64	s	TRANSISTOR 2SK508-T1K51
Q20	8-729-116-64	s	TRANSISTOR 2SK508-T1K51
Q21	8-729-216-22	s	TRANSISTOR 2SA1162
Q25	8-729-216-22	s	TRANSISTOR 2SA1162
Q26	8-729-100-66	s	TRANSISTOR 2SC1623
Q27	8-729-175-73	s	TRANSISTOR 2SC2757
Q28	8-729-175-73	s	TRANSISTOR 2SC2757
Q29	8-729-175-73	s	TRANSISTOR 2SC2757
Q30	8-729-175-73	s	TRANSISTOR 2SC2757

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(IV-25 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q31	8-729-175-73	s	TRANSISTOR 2SC2757
Q32	8-729-175-73	s	TRANSISTOR 2SC2757
Q33	8-729-175-73	s	TRANSISTOR 2SC2757
Q34	8-729-175-73	s	TRANSISTOR 2SC2757
Q35	8-729-175-73	s	TRANSISTOR 2SC2757
Q36	8-729-175-73	s	TRANSISTOR 2SC2757
R115	1-215-432-11	s	METAL FILM 3K 1% 1/6W
R116	1-215-397-11	s	METAL FILM 100 1% 1/6W
R117	1-215-397-11	s	METAL FILM 100 1% 1/6W
RP1	1-235-528-12	s	COMPOSITION CIRCUIT BLOCK
RP2	1-235-526-11	s	COMPOSITION CIRCUIT BLOCK
RP3	1-235-527-11	s	COMPOSITION CIRCUIT BLOCK
RV1	1-237-514-21	s	RES, ADJ, METAL 500
RV2	1-237-514-21	s	RES, ADJ, METAL 500
RV3	1-237-036-11	s	RES, ADJ, METAL 10K
RV4	1-237-514-21	s	RES, ADJ, METAL 500
RV5	1-237-514-21	s	RES, ADJ, METAL 500
RV6	1-237-033-11	s	RES, ADJ, METAL 1K
RV7	1-237-033-11	s	RES, ADJ, METAL 1K
RV8	1-237-032-11	s	RES, ADJ, METAL 500
RV9	1-237-034-11	s	RES, ADJ, METAL 2K
S1	1-554-896-21	s	SWITCH, SLIDE
S2	1-570-134-11	s	SWITCH, SLIDE

HN-105 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6265-120-A	o	MOUNTED CIRCUIT BOARD, HN-105
1pc	7-685-645-79	s	SCREW +BVTP 3X6 TYPE2 N-S
CN1	1-560-731-00	o	HEADER, PIN 50P
CN2	1-563-336-11	o	HOUSING, 64P
CN3	1-563-336-11	o	HOUSING, 64P
CN4	1-563-336-11	o	HOUSING, 64P
CN5	1-563-336-11	o	HOUSING, 64P
CN6	1-563-336-11	o	HOUSING, 64P
CN7	1-563-336-11	o	HOUSING, 64P
CN8	1-563-336-11	o	HOUSING, 64P
CN9	1-563-336-11	o	HOUSING, 64P
CN10	1-563-336-11	o	HOUSING, 64P
CN11	1-563-336-11	o	HOUSING, 64P
CN12	1-563-336-11	o	HOUSING, 64P
CN13	1-563-336-11	o	HOUSING, 64P
CN14	1-563-336-11	o	HOUSING, 64P
CN15	1-563-336-11	o	HOUSING, 64P
CN16	1-563-336-11	o	HOUSING, 64P
CN17	1-563-336-11	o	HOUSING, 64P
CN18	1-563-336-11	o	HOUSING, 64P
CN19	1-506-475-11	o	CONNECTOR, 10P, MALE
CN20	1-506-475-11	o	CONNECTOR, 10P, MALE
CN21	1-506-471-11	s	CONNECTOR, 6P, MALE
CN22	1-506-469-11	s	CONNECTOR, 4P, MALE
CN23	1-506-472-11	s	CONNECTOR, 7P, MALE
CN24	1-506-470-11	s	CONNECTOR, 5P, MALE
CN25	1-506-475-11	o	CONNECTOR, 10P, MALE
CN26	1-506-471-11	s	CONNECTOR, 6P, MALE
CN27	1-506-469-11	s	CONNECTOR, 4P, MALE
CN28	1-506-472-11	s	CONNECTOR, 7P, MALE
CN29	1-506-470-11	s	CONNECTOR, 5P, MALE
CN30	1-506-475-11	o	CONNECTOR, 10P, MALE
CN31	1-506-471-11	o	CONNECTOR, 6P, MALE
CN32	1-506-469-11	s	CONNECTOR, 4P, MALE
CN33	1-506-472-11	o	CONNECTOR, 7P, MALE
CN34	1-506-470-11	o	CONNECTOR, 5P, MALE
CN35	1-506-471-11	s	CONNECTOR, 6P, MALE
CN36	1-506-467-11	s	CONNECTOR, 2P, MALE
CN37	1-506-475-11	o	CONNECTOR, 10P, MALE
CN38	1-506-467-11	o	CONNECTOR, 2P, MALE
CN39	1-506-473-11	o	CONNECTOR, 8P, MALE
CN40	1-506-467-11	o	CONNECTOR, 2P, MALE
CN41	1-506-471-11	s	CONNECTOR, 6P, MALE
CN42	1-563-336-11	o	HOUSING, 64P
CN43	1-560-807-00	o	HEADER 60P
CN44	1-563-336-11	o	HOUSING, 64P
CN45	1-506-471-11	s	CONNECTOR, 6P, MALE
CN50	1-506-473-11	s	CONNECTOR, 8P, MALE

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

HN-138 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6265-121-A	o	MOUNTED CIRCUIT BOARD, HN-138
1pc	7-685-645-79	s	SCREW +BVTP 3X6 TYPE2 N-S
CN1	1-563-334-11	o	HOUSING, 32P
CN2	1-563-334-11	o	HOUSING, 32P
CN3	1-563-334-11	o	HOUSING, 32P
CN4	1-563-334-11	o	HOUSING, 32P
CN5	1-563-334-11	o	HOUSING, 32P
CN6	1-563-334-11	o	HOUSING, 32P
CN7	1-563-334-11	o	HOUSING, 32P
CN8	1-563-334-11	o	HOUSING, 32P
CN9	1-563-334-11	o	HOUSING, 32P
CN10	1-563-334-11	o	HOUSING, 32P
CN11	1-506-485-11	s	CONNECTOR, 6P, MALE
CN12	1-506-485-11	s	CONNECTOR, 6P, MALE
CN13	1-506-485-11	s	CONNECTOR, 6P, MALE
CN14	1-506-485-11	s	CONNECTOR, 6P, MALE
CN15	1-506-485-11	s	CONNECTOR, 6P, MALE
CN16	1-506-488-11	o	CONNECTOR, 9P, MALE
CN17	1-506-485-11	s	CONNECTOR, 6P, MALE
CN18	1-506-485-11	s	CONNECTOR, 6P, MALE
CN19	1-506-485-11	s	CONNECTOR, 6P, MALE
CN20	1-506-485-11	s	CONNECTOR, 6P, MALE
CN21	1-506-473-11	s	CONNECTOR, 8P, MALE
CN22	1-506-469-11	s	CONNECTOR, 4P, MALE
CN23	1-506-467-11	o	CONNECTOR, 2P, MALE
CN24	1-506-471-11	s	CONNECTOR, 6P, MALE
CN25	1-506-471-11	s	CONNECTOR, 6P, MALE
CN26	1-506-471-11	s	CONNECTOR, 6P, MALE
CN27	1-506-471-11	s	CONNECTOR, 6P, MALE
CN28	1-506-471-11	s	CONNECTOR, 6P, MALE
CN29	1-506-471-11	s	CONNECTOR, 6P, MALE
CN30	1-506-473-11	s	CONNECTOR, 8P, MALE
CN31	1-506-473-11	s	CONNECTOR, 8P, MALE
CN32	1-506-471-11	s	CONNECTOR, 6P, MALE
CN33	1-506-471-11	s	CONNECTOR, 6P, MALE
CN34	1-506-471-11	s	CONNECTOR, 6P, MALE
CN35	1-506-471-11	s	CONNECTOR, 6P, MALE
CN36	1-506-473-11	s	CONNECTOR, 8P, MALE
CN37	1-506-471-11	s	CONNECTOR, 6P, MALE
CN38	1-506-471-11	s	CONNECTOR, 6P, MALE
CN39	1-506-471-11	s	CONNECTOR, 6P, MALE
CN40	1-506-471-11	s	CONNECTOR, 6P, MALE
CN41	1-506-467-11	s	CONNECTOR, 2P, MALE
CN42	1-506-467-11	s	CONNECTOR, 2P, MALE
CN43	1-506-468-11	s	CONNECTOR, 3P, MALE

LE-55 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-620-338-11	o	PC BOARD, LE-55
4pcs	3-674-390-00	o	HOLDER (B), LED
CN1	1-506-482-11	s	CONNECTOR, 3P, MALE
D1	8-719-812-32	s	LED TLY123, YEL
D2	8-719-812-32	s	LED TLY123, YEL
D3	8-719-812-32	s	LED TLY123, YEL
D4	8-719-812-32	s	LED TLY123, YEL
R1	1-249-408-11	s	CARBON 180 5% 1/4W
R2	1-249-408-11	s	CARBON 180 5% 1/4W
R3	1-249-408-11	s	CARBON 180 5% 1/4W
R4	1-249-408-11	s	CARBON 180 5% 1/4W

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

KY-155 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6259-373-A	o	MOUNTED CIRCUIT BOARD, KY-155 (P)
1pc	1-562-148-11	o	HOUSING, 3P
1pc	1-562-151-11	o	HOUSING, 6P
1pc	1-562-153-11	o	HOUSING, 8P
3pcs	1-564-026-00	o	CONTACT, FEMALE, AWG26-30
1pc	1-574-996-11	s	WIRE ASSY, FLAT TYPE (25 CORE)
1pc	2-068-008-00	s	WASHER
1pc	2-139-130-01	o	PLATE, SHIELD
3pcs	2-139-131-01	o	HEAT SINK, CON.
4pcs	2-280-622-61	o	SUPPORT (M3X20), HEXAGON
1pc	3-668-459-31	s	SCREW, CONNECTOR
1pc	4-604-023-11	o	NUT (D SUB), PLATE
2pcs	7-621-772-68	s	SCREW +B 2X12
2pcs	7-621-773-95	s	SCREW +B 2.6X6
2pcs	7-621-775-40	s	SCREW +B 2.6X8
2pcs	7-622-205-05	s	NUT M2 TYPE2
2pcs	7-622-207-05	o	N 2.6, TYPE 2
1pc	7-623-953-01	s	WASHER 2.6, FIBER
2pcs	7-682-547-04	s	SCREW +B 3X6
6pcs	7-682-947-01	s	SCREW +PSW 3X6
3pcs	7-682-948-01	s	SCREW +PSW 3X8
6pcs	7-685-132-19	s	SCREW +P 2.6X5 TYPE2 SLIT
4pcs	7-688-001-02	s	W 2, SMALL
BZ1	1-529-055-11	s	BUZZER
C1	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C2	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C3	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C4	1-126-157-11	s	ELECT 10uF 20% 16V
C5	1-124-767-00	s	ELECT, NONPOLAR 2.2uF 20% 50V
C6	1-124-767-00	s	ELECT, NONPOLAR 2.2uF 20% 50V
C7	1-124-464-11	s	ELECT 0.22MF 20% 50V
C8	1-163-011-11	s	CERAMIC 0.0015uF 10% 50V
C11	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C12	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C13	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C14	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C15	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C16	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C17	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C18	1-124-478-11	s	ELECT 100uF 20% 25V
C31	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C32	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C33	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C34	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C35	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C36	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C37	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C38	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C39	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C40	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C41	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C42	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C43	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C44	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C45	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C46	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C47	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C48	1-162-638-11	s	CERAMIC, CHIP 1uF 16V

(KY-155 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C49	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C50	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C51	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C52	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C53	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C54	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C55	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C56	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C57	1-164-161-11	s	CERAMIC, CHIP 0.0022uF 10% 100V
C70	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
C71	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
C72	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
C73	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
C74	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
C75	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
C76	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
C77	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
C78	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
C79	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
C80	1-162-286-31	s	CERAMIC, CHIP 220PF 10% 50V
CN1	1-506-694-11	o	HEADER 26P
CN2	1-506-492-11	o	CONNECTOR, 13P, MALE
CN3	1-506-488-11	o	CONNECTOR, 9P, MALE
CN6	1-506-469-11	s	CONNECTOR, 4P, MALE
CN7	1-506-487-11	s	CONNECTOR, 8P, MALE
CN8	1-506-485-11	s	CONNECTOR, 6P, MALE
CN9	1-506-482-11	s	CONNECTOR, 3P, MALE
D1	8-719-100-05	s	DIODE 1S2837
D4	8-719-100-05	s	DIODE 1S2837
D5	8-719-100-05	s	DIODE 1S2837
D6	8-719-100-05	s	DIODE 1S2837
D9	8-719-100-05	s	DIODE 1S2837
D10	8-719-105-82	s	DIODE RD5.1M-B2
D11	8-719-105-82	s	DIODE RD5.1M-B2
D12	8-719-100-05	s	DIODE 1S2837
D13	8-719-100-05	s	DIODE 1S2837
D14	8-719-100-05	s	DIODE 1S2837
D15	8-719-100-05	s	DIODE 1S2837
D16	8-719-100-05	s	DIODE 1S2837
D26	8-719-109-89	s	DIODE RD5.6ESB2
D27	8-719-109-89	s	DIODE RD5.6ESB2
D28	8-719-109-89	s	DIODE RD5.6ESB2
D29	8-719-109-89	s	DIODE RD5.6ESB2
D30	8-719-109-89	s	DIODE RD5.6ESB2
D31	8-719-109-89	s	DIODE RD5.6ESB2
D32	8-719-109-89	s	DIODE RD5.6ESB2
D33	8-719-109-89	s	DIODE RD5.6ESB2
D34	8-719-109-89	s	DIODE RD5.6ESB2
D35	8-719-109-89	s	DIODE RD5.6ESB2
D36	8-719-109-89	s	DIODE RD5.6ESB2
D37	8-719-109-89	s	DIODE RD5.6ESB2
D38	8-719-109-89	s	DIODE RD5.6ESB2
D39	8-719-109-89	s	DIODE RD5.6ESB2
D40	8-719-109-89	s	DIODE RD5.6ESB2
D41	8-719-109-89	s	DIODE RD5.6ESB2
D42	8-719-109-89	s	DIODE RD5.6ESB2
D43	8-719-109-89	s	DIODE RD5.6ESB2
D44	8-719-109-89	s	DIODE RD5.6ESB2

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
D45	8-719-109-89	s	DIODE RD5.6ESB2
D46	8-719-109-89	s	DIODE RD5.6ESB2
D47	8-719-109-89	s	DIODE RD5.6ESB2
D48	8-719-109-89	s	DIODE RD5.6ESB2
D49	8-719-109-89	s	DIODE RD5.6ESB2
D50	8-719-109-89	s	DIODE RD5.6ESB2
D51	8-719-109-89	s	DIODE RD5.6ESB2
D52	8-719-109-89	s	DIODE RD5.6ESB2
D53	8-719-109-89	s	DIODE RD5.6ESB2
D54	8-719-109-89	s	DIODE RD5.6ESB2
D55	8-719-109-89	s	DIODE RD5.6ESB2
D56	8-719-109-89	s	DIODE RD5.6ESB2
D57	8-719-109-89	s	DIODE RD5.6ESB2
D58	8-719-109-89	s	DIODE RD5.6ESB2
D59	8-719-109-89	s	DIODE RD5.6ESB2
D60	8-719-109-89	s	DIODE RD5.6ESB2
D61	8-719-109-89	s	DIODE RD5.6ESB2
D62	8-719-109-89	s	DIODE RD5.6ESB2
D63	8-719-109-89	s	DIODE RD5.6ESB2
D64	8-719-109-89	s	DIODE RD5.6ESB2
D65	8-719-109-89	s	DIODE RD5.6ESB2
D66	8-719-109-89	s	DIODE RD5.6ESB2
D67	8-719-109-89	s	DIODE RD5.6ESB2
D68	8-719-109-89	s	DIODE RD5.6ESB2
D69	8-719-109-89	s	DIODE RD5.6ESB2
D70	8-719-109-89	s	DIODE RD5.6ESB2
D71	8-719-109-89	s	DIODE RD5.6ESB2
D72	8-719-109-89	s	DIODE RD5.6ESB2
D73	8-719-109-89	s	DIODE RD5.6ESB2
D74	8-719-109-89	s	DIODE RD5.6ESB2
D75	8-719-109-89	s	DIODE RD5.6ESB2
D76	8-719-109-89	s	DIODE RD5.6ESB2
IC1	8-759-923-64	s	IC AM26LS32ACNS
IC2	8-759-200-79	s	IC TC4049BF
IC3	8-759-923-64	s	IC AM26LS32ACNS
IC4	8-759-923-65	s	IC AM26LS31CNS
IC5	8-759-990-64	s	IC MSM80C31FVGS-V1K
IC6	8-759-803-70	s	IC SN74HC08NS
IC7	8-759-232-94	s	IC TC74HC245AF
IC8	8-759-926-48	s	IC SN74HC244NS
IC9	8-759-926-48	s	IC SN74HC244NS
IC10	8-759-926-48	s	IC SN74HC244NS
IC11	8-759-926-67	s	IC SN74HC374NS
IC12	8-759-747-55	s	IC MBM27C256A-25-X
IC13	8-759-008-79	s	IC MC14011BF
IC14	8-759-008-79	s	IC MC14011BF
IC15	8-759-926-67	s	IC SN74HC374NS
IC16	8-759-106-58	s	IC UPD7004C
IC17	8-759-009-06	s	IC MC14052BF
IC18	8-759-009-06	s	IC MC14052BF
IC19	8-759-926-67	s	IC SN74HC374NS
IC20	8-759-009-10	s	IC MC14069UBF
IC21	8-759-008-95	s	IC MC14028BF
IC22	8-759-000-83	s	IC MC14532BCP
IC23	8-759-926-48	s	IC SN74HC244NS
IC24	8-759-926-67	s	IC SN74HC374NS
IC25	8-759-926-48	s	IC SN74HC244NS
IC26	8-759-926-67	s	IC SN74HC374NS

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Ref. No. or Q'ty	Part No.	SP	Description
IC27	8-759-008-95	s	IC MC14028BF
IC28	8-759-000-83	s	IC MC14532BCP
IC29	8-759-000-83	s	IC MC14532BCP
IC30	8-759-008-95	s	IC MC14028BF
IC31	8-759-000-83	s	IC MC14532BCP
IC32	8-759-000-83	s	IC MC14532BCP
IC33	8-759-926-11	s	IC SN74HC138NS
IC34	8-759-926-11	s	IC SN74HC138NS
IC35	8-759-926-67	s	IC SN74HC374NS
IC36	8-759-008-95	s	IC MC14028BF
IC37	8-759-000-83	s	IC MC14532BCP
IC38	8-759-000-83	s	IC MC14532BCP
IC39	8-759-926-48	s	IC SN74HC244NS
IC40	8-759-925-85	s	IC SN74HC32NS
IC41	8-759-925-85	s	IC SN74HC32NS
IC42	8-759-925-85	s	IC SN74HC32NS
IC43	8-759-926-67	s	IC SN74HC374NS
IC44	8-759-926-67	s	IC SN74HC374NS
IC45	8-759-926-67	s	IC SN74HC374NS
IC46	8-759-926-48	s	IC SN74HC244NS
IC47	8-759-926-48	s	IC SN74HC244NS
IC48	8-759-926-11	s	IC SN74HC138NS
IC49	8-759-926-11	s	IC SN74HC138NS
IC50	8-759-926-11	s	IC SN74HC138NS
IC51	8-759-982-05	s	IC RC7805FA
IC52	8-759-982-05	s	IC RC7805FA
IC53	8-759-982-05	s	IC RC7805FA
IC54	8-759-925-85	s	IC SN74HC32NS
IC55	8-759-303-46	s	IC HM6264LFP-15SL
IC56	8-759-925-98	s	IC SN74HC107NS
IC57	8-759-926-67	s	IC SN74HC374NS
IC58	8-759-926-48	s	IC SN74HC244NS
IC59	8-759-926-48	s	IC SN74HC244NS
IC60	8-759-926-67	s	IC SN74HC374NS
IC61	8-759-200-79	s	IC TC4049BF
IC62	8-759-200-79	s	IC TC4049BF
IC63	8-759-803-70	s	IC SN74HC08NS
IC64	8-759-926-67	s	IC SN74HC374NS
Q1	8-729-422-21	s	TRANSISTOR UN2224-TX
Q2	8-729-422-21	s	TRANSISTOR UN2224-TX
Q3	8-729-422-21	s	TRANSISTOR UN2224-TX
Q4	8-729-422-21	s	TRANSISTOR UN2224-TX
Q9	8-729-422-21	s	TRANSISTOR UN2224-TX
Q10	8-729-422-21	s	TRANSISTOR UN2224-TX
Q11	8-729-422-21	s	TRANSISTOR UN2224-TX
Q12	8-729-422-21	s	TRANSISTOR UN2224-TX
Q13	8-729-422-21	s	TRANSISTOR UN2224-TX
Q14	8-729-422-21	s	TRANSISTOR UN2224-TX
Q15	8-729-422-21	s	TRANSISTOR UN2224-TX
Q16	8-729-422-21	s	TRANSISTOR UN2224-TX
Q17	8-729-422-21	s	TRANSISTOR UN2224-TX
Q18	8-729-422-21	s	TRANSISTOR UN2224-TX
Q19	8-729-422-21	s	TRANSISTOR UN2224-TX
Q20	8-729-422-21	s	TRANSISTOR UN2224-TX
Q21	8-729-422-21	s	TRANSISTOR UN2224-TX
Q22	8-729-422-21	s	TRANSISTOR UN2224-TX
Q23	8-729-422-21	s	TRANSISTOR UN2224-TX
Q24	8-729-422-21	s	TRANSISTOR UN2224-TX

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

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Ref. No. or Q'ty	Part No.	SP	Description
Q25	8-729-422-21	s	TRANSISTOR UN2224-TX
Q26	8-729-422-21	s	TRANSISTOR UN2224-TX
Q27	8-729-422-21	s	TRANSISTOR UN2224-TX
Q28	8-729-422-21	s	TRANSISTOR UN2224-TX
Q29	8-729-422-21	s	TRANSISTOR UN2224-TX
Q30	8-729-422-21	s	TRANSISTOR UN2224-TX
Q31	8-729-422-21	s	TRANSISTOR UN2224-TX
Q32	8-729-422-21	s	TRANSISTOR UN2224-TX
Q33	8-729-422-21	s	TRANSISTOR UN2224-TX
Q34	8-729-422-21	s	TRANSISTOR UN2224-TX
Q35	8-729-422-21	s	TRANSISTOR UN2224-TX
Q36	8-729-422-21	s	TRANSISTOR UN2224-TX
Q37	8-729-422-21	s	TRANSISTOR UN2224-TX
Q38	8-729-422-21	s	TRANSISTOR UN2224-TX
Q39	8-729-422-21	s	TRANSISTOR UN2224-TX
Q40	8-729-422-21	s	TRANSISTOR UN2224-TX
Q41	8-729-422-21	s	TRANSISTOR UN2224-TX
Q42	8-729-422-21	s	TRANSISTOR UN2224-TX
Q43	8-729-422-21	s	TRANSISTOR UN2224-TX
Q44	8-729-422-21	s	TRANSISTOR UN2224-TX
Q45	8-729-422-21	s	TRANSISTOR UN2224-TX
Q46	8-729-422-21	s	TRANSISTOR UN2224-TX
Q47	8-729-422-21	s	TRANSISTOR UN2224-TX
Q48	8-729-422-21	s	TRANSISTOR UN2224-TX
Q49	8-729-422-21	s	TRANSISTOR UN2224-TX
Q50	8-729-422-21	s	TRANSISTOR UN2224-TX
Q51	8-729-422-21	s	TRANSISTOR UN2224-TX
Q52	8-729-422-21	s	TRANSISTOR UN2224-TX
Q53	8-729-422-21	s	TRANSISTOR UN2224-TX
Q54	8-729-422-21	s	TRANSISTOR UN2224-TX
Q55	8-729-422-21	s	TRANSISTOR UN2224-TX
Q56	8-729-422-21	s	TRANSISTOR UN2224-TX
Q57	8-729-422-21	s	TRANSISTOR UN2224-TX
Q64	8-729-422-21	s	TRANSISTOR UN2224-TX
Q65	8-729-422-21	s	TRANSISTOR UN2224-TX
Q66	8-729-422-21	s	TRANSISTOR UN2224-TX
Q67	8-729-422-21	s	TRANSISTOR UN2224-TX
Q68	8-729-422-21	s	TRANSISTOR UN2224-TX
Q69	8-729-422-21	s	TRANSISTOR UN2224-TX
Q70	8-729-422-21	s	TRANSISTOR UN2224-TX
Q71	8-729-422-21	s	TRANSISTOR UN2224-TX
Q72	8-729-422-21	s	TRANSISTOR UN2224-TX
Q73	8-729-422-21	s	TRANSISTOR UN2224-TX
Q74	8-729-422-21	s	TRANSISTOR UN2224-TX
Q75	8-729-422-21	s	TRANSISTOR UN2224-TX
Q76	8-729-422-21	s	TRANSISTOR UN2224-TX
Q78	8-729-216-22	s	TRANSISTOR 2SA1162
Q79	8-729-422-21	s	TRANSISTOR UN2224-TX
Q80	8-729-216-22	s	TRANSISTOR 2SA1162
Q81	8-729-422-21	s	TRANSISTOR UN2224-TX
Q82	8-729-216-22	s	TRANSISTOR 2SA1162
Q83	8-729-422-21	s	TRANSISTOR UN2224-TX
R1	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R2	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R3	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R4	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R5	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R6	1-216-033-00	s	METAL, CHIP 220 5% 1/10W

(KY-155 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R7	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R8	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R9	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R10	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R11	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R12	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R13	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R14	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R15	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R16	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R17	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R18	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R19	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R20	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R21	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R22	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R23	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R24	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R25	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R26	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R27	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R32	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R33	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R34	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R35	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R36	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R37	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R38	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R39	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R40	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R41	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R42	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R43	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R44	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R45	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R46	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R47	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R48	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R49	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R50	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R51	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R52	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R53	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R54	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R55	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R56	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R57	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R58	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R59	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R60	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R61	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R62	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R63	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R64	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R65	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R66	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R67	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R68	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R69	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(KY-155 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R70	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R71	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R72	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R73	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R74	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R75	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R76	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R77	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R78	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R79	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R80	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R87	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R88	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R89	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R90	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R91	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R92	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R93	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R94	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R95	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R96	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R97	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R98	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R99	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R100	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R101	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R102	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R103	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R104	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R105	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R106	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R107	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R108	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R109	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R110	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R111	1-216-009-00	s	METAL, CHIP 22 5% 1/10W
R112	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R113	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R114	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R115	1-216-009-00	s	METAL, CHIP 22 5% 1/10W
R116	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R117	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R118	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R119	1-216-009-00	s	METAL, CHIP 22 5% 1/10W
R120	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R121	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R122	1-216-049-00	s	METAL, CHIP 1K 5% 1/10W
R123	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R124	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R125	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R126	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R127	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R128	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R150	1-249-414-21	s	CARBON 560 5% 1/4W
R151	1-249-414-21	s	CARBON 560 5% 1/4W
R152	1-249-414-21	s	CARBON 560 5% 1/4W
R153	1-249-414-21	s	CARBON 560 5% 1/4W
R154	1-249-414-21	s	CARBON 560 5% 1/4W
R155	1-249-414-21	s	CARBON 560 5% 1/4W

(KY-155 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R156	1-249-414-21	s	CARBON 560 5% 1/4W
R157	1-249-414-21	s	CARBON 560 5% 1/4W
R158	1-249-414-21	s	CARBON 560 5% 1/4W
R159	1-249-414-21	s	CARBON 560 5% 1/4W
R160	1-249-414-21	s	CARBON 560 5% 1/4W
RV1	1-238-720-11	s	RES, VAR, CARBON 5K
RV2	1-238-720-11	s	RES, VAR, CARBON 5K
RV3	1-238-720-11	s	RES, VAR, CARBON 5K
RV4	1-238-720-11	s	RES, VAR, CARBON 5K
RV5	1-238-720-11	s	RES, VAR, CARBON 5K
RV6	1-238-720-11	s	RES, VAR, CARBON 5K
RV7	1-238-720-11	s	RES, VAR, CARBON 5K
RV8	1-238-720-11	s	RES, VAR, CARBON 5K
RV9	1-238-720-11	s	RES, VAR, CARBON 5K
RV10	1-238-720-11	s	RES, VAR, CARBON 5K
RV11	1-238-720-11	s	RES, VAR, CARBON 5K
RV12	1-238-720-11	s	RES, VAR, CARBON 5K
RV13	1-238-720-11	s	RES, VAR, CARBON 5K
RV14	1-238-720-11	s	RES, VAR, CARBON 5K
RV15	1-238-720-11	s	RES, VAR, CARBON 5K
RV16	1-238-720-11	s	RES, VAR, CARBON 5K
S1	1-572-036-31	s	SWITCH, PUSH (1 KEY)
S2	1-572-036-61	s	SWITCH, PUSH (1 KEY)
S3	1-572-036-71	s	SWITCH, PUSH (1 KEY)
S4	1-572-036-81	s	SWITCH, PUSH (1 KEY)
S5	1-572-036-91	s	SWITCH, PUSH (1 KEY)
S6	1-572-036-31	s	SWITCH, PUSH (1 KEY)
S7	1-572-037-11	s	SWITCH, PUSH (1 KEY)
S8	1-572-037-21	s	SWITCH, PUSH (1 KEY)
S9	1-572-037-31	s	SWITCH, PUSH (1 KEY)
S10	1-572-034-31	s	SWITCH, PUSH (1 KEY)
S11	1-572-031-11	s	SWITCH, PUSH (1 g-)
S12	1-572-037-71	s	SWITCH, PUSH (1 KEY)
S13	1-572-036-41	s	SWITCH, PUSH (1 KEY)
S14	1-572-037-41	s	SWITCH, PUSH (1 KEY)
S15	1-572-036-51	s	SWITCH, PUSH (1 KEY)
S16	1-572-037-81	s	SWITCH, PUSH (1 KEY)
S17	1-572-037-91	s	SWITCH, PUSH (1 KEY)
S18	1-572-032-51	s	SWITCH, PUSH (1 KEY)
S19	1-572-032-41	s	SWITCH, PUSH (1 KEY)
S20	1-572-032-41	s	SWITCH, PUSH (1 KEY)
S21	1-572-032-41	s	SWITCH, PUSH (1 KEY)
S22	1-572-032-41	s	SWITCH, PUSH (1 KEY)
S23	1-572-032-41	s	SWITCH, PUSH (1 KEY)
S24	1-572-032-41	s	SWITCH, PUSH (1 KEY)
S25	1-572-032-41	s	SWITCH, PUSH (1 KEY)
S26	1-572-032-41	s	SWITCH, PUSH (1 KEY)
S27	1-572-032-61	s	SWITCH, PUSH (1 KEY)
S28	1-572-032-81	s	SWITCH, PUSH (1 KEY)
S29	1-572-032-71	s	SWITCH, PUSH (1 KEY)
S30	1-572-032-71	s	SWITCH, PUSH (1 KEY)
S31	1-572-032-71	s	SWITCH, PUSH (1 KEY)
S32	1-572-032-71	s	SWITCH, PUSH (1 KEY)
S33	1-572-032-71	s	SWITCH, PUSH (1 KEY)
S34	1-572-032-71	s	SWITCH, PUSH (1 KEY)
S35	1-572-032-71	s	SWITCH, PUSH (1 KEY)
S36	1-572-032-71	s	SWITCH, PUSH (1 KEY)
S37	1-572-032-91	s	SWITCH, PUSH (1 KEY)

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(KY-155 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
S38	1-572-032-21	s	SWITCH, PUSH (1 KEY)
S39	1-572-032-11	s	SWITCH, PUSH (1 KEY)
S40	1-572-032-11	s	SWITCH, PUSH (1 KEY)
S41	1-572-032-11	s	SWITCH, PUSH (1 KEY)
S42	1-572-032-11	s	SWITCH, PUSH (1 KEY)
S43	1-572-032-11	s	SWITCH, PUSH (1 KEY)
S44	1-572-032-11	s	SWITCH, PUSH (1 KEY)
S45	1-572-032-11	s	SWITCH, PUSH (1 KEY)
S46	1-572-032-11	s	SWITCH, PUSH (1 KEY)
S47	1-572-032-31	s	SWITCH, PUSH (1 KEY)
S48	1-572-035-91	s	SWITCH, PUSH (1 KEY)
S49	1-572-036-11	s	SWITCH, PUSH (1 KEY)
S50	1-572-036-21	s	SWITCH, PUSH (1 KEY)
S51	1-572-037-51	s	SWITCH, PUSH (1 KEY)
S52	1-572-037-61	s	SWITCH, PUSH (1 KEY)
S53	1-572-081-11	s	SWITCH, PUSH (1 KEY)
S54	1-572-038-31	s	SWITCH, PUSH (1 KEY)
S55	1-572-038-21	s	SWITCH, PUSH (1 KEY)
S56	1-572-033-11	s	SWITCH, PUSH (1 KEY)
S57	1-572-033-21	s	SWITCH, PUSH (1 KEY)
S58	1-572-033-31	s	SWITCH, PUSH (1 KEY)
S59	1-572-033-41	s	SWITCH, PUSH (1 KEY)
S60	1-572-033-51	s	SWITCH, PUSH (1 KEY)
S61	1-572-033-61	s	SWITCH, PUSH (1 KEY)
S62	1-572-033-71	s	SWITCH, PUSH (1 KEY)
S63	1-572-033-81	s	SWITCH, PUSH (1 KEY)
S64	1-572-033-91	s	SWITCH, PUSH (1 KEY)
S65	1-572-034-11	s	SWITCH, PUSH (1 KEY)
S66	1-572-034-21	s	SWITCH, PUSH (1 KEY)
S67	1-572-038-41	s	SWITCH, PUSH (1 KEY)
S68	1-572-034-71	s	SWITCH, PUSH (1 KEY)
S69	1-572-034-61	s	SWITCH, PUSH (1 KEY)
X1	1-567-796-11	s	OSCILLATOR, CRYSTAL 14.7456MHz
X2	1-567-160-00	s	OSCILLATOR, CERAMIC

LP-47 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-631-551-11	o	PRINTED CIRCUIT BOARD, LP-47
D1	8-719-979-87	s	DIODE LD-701MG
D2	8-719-979-87	s	DIODE LD-701MG
D3	8-719-979-87	s	DIODE LD-701MG
D4	8-719-979-87	s	DIODE LD-701MG
Q1	8-729-422-21	s	TRANSISTOR UN2224-TX
Q2	8-729-422-21	s	TRANSISTOR UN2224-TX
Q3	8-729-422-21	s	TRANSISTOR UN2224-TX
Q4	8-729-422-21	s	TRANSISTOR UN2224-TX
R1	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R2	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R3	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R4	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R5	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R6	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R7	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R8	1-216-025-00	s	METAL, CHIP 100 5% 1/10W

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

LP-48 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-631-552-11	o	PRINTED CIRCUIT BOARD, LP-48
D1	8-719-979-87	s	DIODE LD-701MG
D2	8-719-979-87	s	DIODE LD-701MG
D3	8-719-979-87	s	DIODE LD-701MG
D4	8-719-979-87	s	DIODE LD-701MG
D5	8-719-919-96	s	LED LD-101MG-J, GRN
D6	8-719-919-96	s	LED LD-101MG-J, GRN
Q1	8-729-422-21	s	TRANSISTOR UN2224-TX
Q2	8-729-422-21	s	TRANSISTOR UN2224-TX
Q3	8-729-422-21	s	TRANSISTOR UN2224-TX
Q4	8-729-422-21	s	TRANSISTOR UN2224-TX
Q5	8-729-422-21	s	TRANSISTOR UN2224-TX
Q6	8-729-422-21	s	TRANSISTOR UN2224-TX
R1	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R2	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R3	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R4	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R5	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R6	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R7	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R8	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R9	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R10	1-216-025-00	s	METAL, CHIP 100 5% 1/10W

LP-49 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-631-833-11	o	PRINTED CIRCUIT BOARD, LP-49
D1	8-719-979-87	s	DIODE LD-701MG
Q1	8-729-422-21	s	TRANSISTOR UN2224-TX
R1	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R2	1-216-025-00	s	METAL, CHIP 100 5% 1/10W

KY-157 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6259-374-A	o	MOUNTED CIRCUIT BOARD, KY-157
4pcs	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
C1	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C2	1-164-232-11	s	CERAMIC 0.01uF 10% 50V
C3	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C10	1-162-286-31	s	CERAMIC 220PF 10% 50V
CN1	1-506-489-11	s	CONNECTOR, 10P, MALE
CN2	1-506-484-11	s	CONNECTOR, 5P, MALE
CN3	1-506-488-11	o	CONNECTOR, 9P, MALE
CN4	1-506-492-11	o	GONNECTOR, 13P, MALE
IC1	8-759-000-83	s	IC MC14532BCP
IC2	8-759-925-85	s	IC SN74HC32NS
IC3	8-759-000-83	s	IC MC14532BCP
IC4	8-759-926-48	s	IC SN74HC244NS
IC5	8-759-926-48	s	IC SN74HC244NS
IC6	8-759-926-67	s	IC SN74HC374NS
IC7	8-759-000-71	s	IC MC14514BCP
Q1	8-729-422-21	s	TRANSISTOR UN2224-TX
Q2	8-729-422-21	s	TRANSISTOR UN2224-TX
Q3	8-729-422-21	s	TRANSISTOR UN2224-TX
Q4	8-729-422-21	s	TRANSISTOR UN2224-TX
Q5	8-729-422-21	s	TRANSISTOR UN2224-TX
Q6	8-729-422-21	s	TRANSISTOR UN2224-TX
Q7	8-729-422-21	s	TRANSISTOR UN2224-TX
Q8	8-729-422-21	s	TRANSISTOR UN2224-TX
Q9	8-729-422-21	s	TRANSISTOR UN2224-TX
Q10	8-729-422-21	s	TRANSISTOR UN2224-TX
Q11	8-729-422-21	s	TRANSISTOR UN2224-TX
Q12	8-729-422-21	s	TRANSISTOR UN2224-TX
Q13	8-729-422-21	s	TRANSISTOR UN2224-TX
Q14	8-729-422-21	s	TRANSISTOR UN2224-TX
Q15	8-729-422-21	s	TRANSISTOR UN2224-TX
Q16	8-729-422-21	s	TRANSISTOR UN2224-TX
R1	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R2	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R3	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R4	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R5	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R6	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R7	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R8	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R9	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R10	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R11	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R12	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R13	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R14	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R15	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R16	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R17	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R18	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R19	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R20	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R21	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R22	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R23	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R24	1-216-025-00	s	METAL, CHIP 100 5% 1/10W

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(KY-157 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R30	1-249-414-11	s	CARBON 560 5% 1/4W
R61	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R62	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R63	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R64	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
RV1	1-238-724-11	s	VOLUME (JOY STICK TYPE) 10K
S1	1-572-034-81	s	SWITCH, PUSH (1 KEY)
S2	1-572-034-91	s	SWITCH, PUSH (1 KEY)
S3	1-572-035-11	s	SWITCH, PUSH (1 KEY)
S4	1-572-035-21	s	SWITCH, PUSH (1 KEY)
S5	1-572-035-31	s	SWITCH, PUSH (1 KEY)
S6	1-572-034-41	s	SWITCH, PUSH (1 KEY)
S7	1-572-035-41	s	SWITCH, PUSH (1 KEY)
S8	1-572-035-51	s	SWITCH, PUSH (1 KEY)
S9	1-572-035-61	s	SWITCH, PUSH (1 KEY)
S10	1-572-035-81	s	SWITCH, PUSH (1 KEY)
S11	1-572-035-71	s	SWITCH, PUSH (1 KEY)
S12	1-572-034-51	s	SWITCH, PUSH (1 KEY)
S13	1-572-031-11	s	SWITCH, PUSH (1 KEY)
S14	1-572-031-11	s	SWITCH, PUSH (1 KEY)
S15	1-572-031-11	s	SWITCH, PUSH (1 KEY)
S16	1-572-031-11	s	SWITCH, PUSH (1 KEY)
S17	1-572-031-11	s	SWITCH, PUSH (1 KEY)
S18	1-572-031-11	s	SWITCH, PUSH (1 KEY)
S19	1-572-031-11	s	SWITCH, PUSH (1 KEY)
S20	1-572-031-11	s	SWITCH, PUSH (1 KEY)

KY-158 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6259-375-A	o	MOUNTED CIRCUIT BOARD, KY-158
C1	1-162-638-11	s	CERAMIC, CHIP 1uF 16V
C10	1-162-286-31	s	CAP, CERAMIC 220PF 10% 50V
CN1	1-506-489-11	s	CONNECTOR, 10P, MALE
CN2	1-506-484-11	s	CONNECTOR, 5P, MALE
D1	8-719-979-87	s	DIODE LD-701MG
D2	8-719-979-87	s	DIODE LD-701MG
D3	8-719-979-87	s	DIODE LD-701MG
D4	8-719-979-87	s	DIODE LD-701MG
IC1	8-759-009-36	s	IC MC14511BF
IC2	8-759-009-36	s	IC MC14511BF
IC3	8-759-009-36	s	IC MC14511BF
IC4	8-759-926-67	s	IC SN74HC374NS
IC5	8-759-009-36	s	IC MC14511BF
IC6	8-759-009-36	s	IC MC14511BF
IC7	8-759-009-36	s	IC MC14511BF
IC8	8-759-009-36	s	IC MC14511BF
ND1	8-719-980-30	s	DIODE GL-8D03D
ND2	8-719-980-30	s	DIODE GL-8D03D
ND3	8-719-980-30	s	DIODE GL-8D03D
ND4	8-719-980-30	s	DIODE GL-8D03D
ND5	8-719-980-30	s	DIODE GL-8D03D
ND6	8-719-980-30	s	DIODE GL-8D03D
ND7	8-719-980-30	s	DIODE GL-8D03D
Q1	8-729-422-21	s	TRANSISTOR UN2224-TX
Q2	8-729-422-21	s	TRANSISTOR UN2224-TX
Q3	8-729-422-21	s	TRANSISTOR UN2224-TX
Q4	8-729-422-21	s	TRANSISTOR UN2224-TX
Q5	8-729-100-66	s	TRANSISTOR 2SC1623
Q6	8-729-100-66	s	TRANSISTOR 2SC1623
R1	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R2	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R3	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R4	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R5	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R6	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R7	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R8	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R9	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R10	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R11	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R12	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R13	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R14	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R15	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R16	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R17	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R18	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R19	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R20	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R21	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R22	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R23	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R24	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R25	1-216-041-00	s	METAL, CHIP 470 5% 1/10W

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

(KY-158 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R26	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R27	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R28	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R29	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R30	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R31	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R32	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R33	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R34	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R35	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R36	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R37	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R38	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R39	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R40	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R41	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R42	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R43	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R44	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R45	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R46	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R47	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R48	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R49	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R50	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R51	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R52	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R53	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R54	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R55	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R56	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R57	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R58	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R59	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R60	1-216-023-00	s	METAL, CHIP 82 5% 1/10W
R61	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R62	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R63	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R64	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R70	1-249-414-11	s	CARBON 560 5% 1/4W

EX-201 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
CN1	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN2	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN3	1-506-747-11	s	CONNECTOR, DIN 64P, MALE
CN4	1-563-336-11	o	HOUSING, 64P
CN5	1-563-336-11	o	HOUSING, 64P
CN6	1-563-336-11	o	HOUSING, 64P
CN7	1-563-340-11	o	HOUSING, CONNECTOR (DIP) 64P
CN8	1-563-340-11	o	HOUSING, CONNECTOR (DIP) 64P
CN9	1-563-340-11	o	HOUSING, CONNECTOR (DIP) 64P

Parts that are not listed in the "reference numbers order list" are shown in the "General Purpose Electrical Parts List".

EX-236 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	7-685-646-79	s	SCREW +BVTP 3X8 TYPE2 N-S
CN1	1-563-338-11	o	HOUSING, CONNECTOR (DIP) 32P
CN2	1-506-745-11	s	PIN, DIN CONNECTOR (DIP) 32P

FRAME

Ref. No. or Q'ty	Part No.	SP	Description
(to CN-330 board)			
CN1	1-562-147-41	o	HOUSING, 2P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN2	1-562-153-31	o	HOUSING, 8P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN3	1-562-147-21	o	HOUSING, 2P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN4	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN5	1-562-153-21	o	HOUSING, 8P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
(to CN-332 board)			
CN1	1-562-151-11	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN2	1-562-151-31	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN3	1-562-151-21	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN4	1-562-153-11	o	HOUSING, 8P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN5	1-562-151-31	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN6	1-562-149-31	o	HOUSING, 4P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN7	1-562-151-11	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN8	1-562-151-21	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN9	1-562-149-11	o	HOUSING, 4P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN10	1-562-149-11	o	HOUSING, 4P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN11	1-562-149-11	o	HOUSING, 4P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN12	1-562-153-31	o	HOUSING, 8P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN13	1-562-148-31	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
(to HN-105 board)			
CN19	1-562-155-11	o	HOUSING, 10P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN20	1-562-155-11	o	HOUSING, 10P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN21	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30

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(FRAME)

Ref. No. or Q'ty	Part No.	SP	Description
CN22	1-562-149-11	o	HOUSING, 4P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN23	1-562-152-11	o	HOUSING, 7P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN24	1-562-150-11	o	HOUSING, 5P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN25	1-562-155-31	o	HOUSING, 10P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN26	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN27	1-562-149-31	o	HOUSING, 4P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN28	1-562-152-31	o	HOUSING, 7P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN29	1-562-150-31	o	HOUSING, 5P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN30	1-562-155-21	o	HOUSING, 10P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN31	1-562-151-21	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN32	1-562-149-21	o	HOUSING, 4P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN33	1-562-152-31	o	HOUSING, 7P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN34	1-562-150-21	o	HOUSING, 5P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN35	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN36	1-562-147-11	o	HOUSING, 2P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN37	1-562-155-11	o	HOUSING, 10P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN38	1-562-147-41	o	HOUSING, 2P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN39	1-562-153-31	o	HOUSING, 8P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN40	1-562-147-21	o	HOUSING, 2P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN41	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN45	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN50	1-562-153-21	o	HOUSING, 8P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30

(FRAME)

Ref. No. or Q'ty	Part No.	SP	Description
(to HN-138 board)			
CN11	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN12	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN13	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN14	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN15	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN16	1-562-154-11	o	HOUSING, 9P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN17	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN18	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN19	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN20	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN21	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN22	1-562-149-11	o	HOUSING, 4P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN23	1-562-149-21	o	HOUSING, 2P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN24	1-562-151-21	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN25	1-562-151-21	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN26	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN27	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN28	1-562-151-21	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN29	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN30	1-562-151-11	o	HOUSING, 8P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN31	1-562-151-11	o	HOUSING, 8P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN32	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN33	1-562-151-31	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30

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(FRAME)

Ref. No. or Q'ty	Part No.	SP	Description
CN34	1-562-151-41	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN35	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN36	1-562-153-11	o	HOUSING, 8P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN37	1-562-151-21	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN38	1-562-151-21	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN39	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN40	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN41	1-562-147-11	o	HOUSING, 2P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN42	1-562-147-31	o	HOUSING, 2P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN43	1-562-148-31	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
(to KY-155 board)			
CN2	1-562-627-11	o	HOUSING, 13P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN3	1-562-154-11	o	HOUSING, 9P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN7	1-562-153-11	o	HOUSING, 8P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN8	1-562-151-11	o	HOUSING, 6P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN9	1-562-148-31	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
(to KY-157 board)			
CN1	1-562-155-11	o	HOUSING, 10P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN2	1-562-150-11	o	HOUSING, 5P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN3	1-562-154-11	o	HOUSING, 9P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN4	1-562-627-11	o	HOUSING, 13P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
(to KY-158 board)			
CN1	1-562-155-11	o	HOUSING, 10P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
CN2	1-562-150-11	o	HOUSING, 5P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30

(FRAME)

Ref. No. or Q'ty	Part No.	SP	Description
(to LE-55 board)			
CN1	1-562-148-31	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
(to SW REG)			
CN1	1-562-148-31	o	HOUSING, 3P
	1-564-026-11	o	CONTACT, FEMALE, AMG26-30
(to BRAKER)			
CN1	⚠1-560-222-11	s	INLET 3P
	1-562-210-11	o	CONTACT, FEMALE AMG-8-22
	4-601-466-11	s	COVER, 3P INLET
CN101	1-562-211-11	o	HOUSING, 3P
	1-535-324-11	o	TERMINAL, FASTEN
S1	⚠1-570-117-11	s	SWITCH, SEESAW (AC POWER)

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PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6253-806-A	o	EX-201 ASSY
2pc	X-2127-223-1	o	ANGLE ASSY(4U), RACK
1pc	1-564-592-11	o	CONNECTOR, D SUB (PLUG) 15P
1pc	1-564-747-11	o	CONNECTOR, D SUB (PLUG) 25P
1pc	1-574-993-11	s	SWC-2530D
1pc	1-574-994-11	s	WIRE ASSY, FLAT TYPE (26 CORE)
1pc	2-139-141-01	o	PLATE, SHIELD, EX
1pc	⚠1-556-760-11	s	POWER CORD
1pc	2-990-242-01	o	HOLDER (B), PLUG

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